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F. C. Latrobe,

Mayor of Baltimore.

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Baltimore, Mayor,

—THE—

MAYOR'S MESSAGE,

AND

REPORTS OF THE CITY OFFICERS,

MADE TO THE

ITY COUNCIL OF BALTIMORE

For the Year 1880.

BALTIMORE:
PRINTED BY KING BROTHERS,
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1881.

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MAYOR'S MESSAGE.

BALTIMORE, January 1, 1881.

To the Honorable the
Members of the City Council:

GENTLEMEN:

In accordance with the requirements of law, I submit the following message. It contains a statement of the financial condition of the city on the 31st December, 1880, the operations of its different departments during the past year, and some suggestions in connection with its government.

The Financial Condition of the Corporation Dec. 31st, 1880.

Amount of funded debt December 31st, 1880.....	$34,600,298 06
Amount of guaranteed liabilities December 31st, 1880.....	1,492,000 00
	$36,092,298 06

267357

Amount brought forward.		$36,092,298 06
From which deduct Water Loans of 1894 and 1916, the interest on which are paid by revenue from water rents.....	$9,000,000 00	
Park Loans, interest paid by City Passenger Railway Companies.....	555,566 25	
Cash in bank in reserve for redemption of Water Stock of 1875.....	6,346 33	
		9,561,912 58
		$26,530,385 48
And the following productive and interest-bearing assets:		
Mortgage on Baltimore and Ohio R. R. Co.....	$5,000,000 00	
Mortgage on Union R. R. Co.....	117,000 00	
Mortgage on Western Md. R. R. Co., (First).....	200,000 00	
32,500 Shares of Baltimore and Ohio Railroad Company Stock, at $180.....	5,850,000 00	
Value of Sinking Funds...	7,859,757 78	
550 Shares Baltimore and Reistertown Turnpike Company Stock, valued at.....	2,200 00	
Amounts carried forward.	$19,028,957 78	$26,530,385 48

Amounts brought forward		$19,028,957 78	$26,530,385 48
625 Shares Baltimore and Yorktown Turnpike Co. Stock, valued at.....		3,125 00	
120 Shares Baltimore and Havre de Grace Turnpike Company Stock, valued at.....		3,000 00	
137 Shares Baltimore and Frederick Turnpike Co. Stock, valued at.....		206 00	
Market houses, producing a yearly rental of.....	$45,000 00		
Improved whf. property, producing a yearly rental of...	45,000 00		
Other real estate, producing a yearly rental of.....	7,601 88		
	$97,601 88		
Capitalized at 6 per cent.		1,626,698 00	
			20,661,986 78
Balance of debt over available interest-bearing securities.....			$5,868,398 70

The following are the unproductive assets of the city:	
Second Mortgage on Western Maryland Railroad Company.....	$300,000 00
Interest thereon to January 1, 1881.....	216,000 00
Third Mortgage on Western Maryland Railroad Company.....	875,000 00
Interest thereon to January 1, 1881.....	525,000 00
Fourth Mortgage on Western Maryland Railroad Company.....	1,000,000 00
Interest thereon to January 1, 1881.....	510,000 00
10,000 Shares of the Valley Railroad Company of Virginia Stock, par $100	1,000,000 00
4,000 Shares of the Western Maryland Railroad Company Stock, par $50.00.....	200,000 00
7,600 Shares of the Baltimore and Susquehanna Tidewater Canal Company, par $50.00.....	380,000 00
Amount carried forward.	$5,006,000 00

Amount brought forward.	$5,006,000 00	
714 Shares of the Baltimore and Hall Springs Railway Company Stock, par $20.00.....	14,280 00	
Besides other property, such as—		
Court Houses, Record Office, City Hall, Jail, Police Stations, Fire Engine Houses and Apparatus, School Houses, Almshouse, Ice Boats, City Yard, Marine Hospital Grounds, Public Parks, &c., valued at....	10,000,000 00	
		$15,020,280 00

COMPARISON OF THE DEBT DECEMBER 31, 1880, WITH THE DEBT DECEMBER 31, 1879.

Amount of Funded and Guaranteed Debt December 31st, 1880.....		$36,092,298 06
Amount of Funded and Guaranteed Debt December 31st, 1879.....		35,023,798 06
Increase of debt during the year.....		$1,068,500 00
This increase of the debt was caused as follows:		
Stock issued for Harford Run, 4 per cent.....	$40,000 00	
Amount carried forward....	$40,000 00	

Amount brought forward....	$40,000 00	
Water Stock, for Gunpowder Supply, 5 per cent.....	378,800 00	
Jones' Falls Improvement Stock, 5 per cent.....	650,000 00	
	$1,068,800 00	
Less payment of $300 of overdue Water Stock of 1875.....	300 00	
		$1,068,500 00

The premiums realized on the sale of the above stock amounted to $97,598.07.

COMPARISON OF THE FINANCIAL STATEMENT OF DECEMBER, 31, 1880, WITH THE FINANCIAL STATEMENT OF DECEMBER 31, 1879.

The Funded and Guaranteed Debt on December 31, 1880.....	$36,092,298 06
Productive or interest-bearing assets from which income is derived to meet the interest on the debt.....	30,223,899 36
Amount of debt, less the means of paying the same, December 31, 1880.....	$5,868,398 70
The Funded and Guaranteed Debt on December 31, 1879, was.....	$35,017,151 06
Productive or interest-bearing assets from which income is derived to meet the interest on the debt.....	28,099,036 02
Amount of debt, less the means of paying the same, December 31, 1879.....	$6,924,762 04

It will thus be seen that although the actual debt of the city has increased during the year $1,068,500.00, the value of the available or income-producing assets of the city has increased $2,131,509.67. This is due to the fact that the increased revenue from the Water Board enables the city to meet from this source the interest on the increased amount of the Water Stock, from $8,621,200.00 in 1879 to $9,000,000.00 in 1880; the increased value of the Baltimore and Ohio Railroad Stock, from $4,333,333.33 in 1879 to $5,850,000.00 in 1880, paying, as it now does, an income of 10 per cent. per annum, instead of 8 per cent., as in 1879; and the increase in the Sinking Fund during the year of $436,030.67.

SINKING FUNDS.

The following table gives the amount of the Sinking Funds held by the Commissioners of Finance for the redemption of the debt. This fund is invested in City Stock, the interest upon which is annually paid by the city and added to the principal; it thus increases rapidly by compound interest. The issues of stock in which it is invested are shown in the report of the Commissioners of Finance.

Value of Sinking Funds, estimating the City Stock held by said fund at its par value, December 31st, 1880.....	$7,859,757 78
Value of Sinking Funds December 31st, 1879.....	7,423,727 11
Actual increase of the Sinking Fund from accruing interest and other sources for year ending December 31st, 1880.....	$436,030 67

The amount of the Funded and Guaranteed Debt upon which interest is to be raised by taxation in the year 1880 is $13,162,653.48. It is an apparent anomaly that interest should be required to be paid upon this amount, when, as shown in the above tables, the actual debt of the city is only $5,868,398.70; but it must be recollected that of the thirteen millions, over seven millions is held in the Sinking Fund, upon which interest is paid by the city to itself.

RECEIPTS AND EXPENDITURES.

The following table will show the receipts of the city from collections of taxes and other sources applicable to the support of the City Government for the year ending December 31st, 1880:

From City Collector, levy of 1880	$2,327,583 17	
City Collector, levy of 1879 and previous years	1,338,428 44	
		$3,666,011 61
From public schools, tuition fees and J. F. Plummer		46,292 49
From markets		50,647 95
From wharfage		25,989 03
From dividend Baltimore and Ohio Railroad Stock		292,500 00
From general and carriage licenses		49,430 44
From sundry regular sources		65,677 49
Actual income		$4,196,549 01

The actual income in 1879 was $4,298,388.40—over one hundred thousand dollars more than in 1880, not-

withstanding the increased amount of interest paid by the Baltimore and Ohio Railroad Company in the latter year. This decrease in revenue for 1880, is due to the reduction in the tax levy from $1.90 in 1878 to $1.50 in 1879 and $1.37 in 1880—the reduction from $1.90 in 1878 to $1.50 in 1879 affecting the revenue of 1880 in the reduced rate of the taxes in arrears that were collected in that year.

The following table will show the actual expenses of the City Government for the year ending December 31, 1880:

Interest on public debt	$1,031,731 92
Expenses of Courts, Jail, registration of voters, &c	239,660 14
Public schools, salaries and expenses	469,848 65
" new buildings	21,835 75
City poor	157,144 71
Sinking funds	5,736 16
Harbor Board	106,112 81
State Police	583,382 45
Health Department	245,430 81
Fire Department	188,469 30
Inspector of Buildings, repairs of city property, &c	39,799 70
City Commissioner's Department	195,109 78
City Council expenses	54,074 61
Salaries	66,000 00
Parks and squares other than Patterson and Druid Hill Parks	59,962 66
Discount on taxes and interest on loans	107,449 27
Amount carried forward	$3,571,748 72

Amount brought forward.....	$3,571,748 72
Lamplighters.....	43,438 85
City Collector, salaries and expenses of office.....	43,982 25
Department of Lamps, gas and lamps.....	145,737 39
General expenditures, being the aggregate of sundry items.....	142,892 06
	$3,947,799 27

The expenses of the City Government for the year ending October 31, 1875, were.....	$4,921,261 61
For year ending October 31, 1876.....	4,871,866 55
" " December 31, 1877—14 months.....	5,800,286 85
" " December 31, 1878.....	4,658,022 59
" " December 31, 1879.....	3,817,742 86
" " December 31, 1880.....	3,947,799 27

The increase from 1879 to 1880 is due to larger appropriations being required for many of the departments, owing to the natural increase of the city, and the increased interest to be paid on the addition to the stock indebtedness.

A comparison with the cost of the City Government for the year 1878 will show how the present policy of economy has reduced the municipal expenditures.

An examination of the financial statements, which are kept in the City Library, of other large cities in the country, will show that there is not one of them with so small an indebtedness over and above its available or interest-bearing securities, as is shown by the balance-sheet of the city of Baltimore; nor can any of

them show lower rate of taxation or a more economical City Government. The high price of the city securities is an evidence of its healthy financial condition.

FLOATING INDEBTEDNESS.

At the close of the year 1878 the floating indebtedness of the city was $622,649.18. On December 31, 1879, this indebtedness had been reduced to $296,370.28; and on December 31, 1880, it is reduced to $155,776.37. It will thus be seen that notwithstanding the reduction of the taxable basis from $253,000,000, the amount estimated by the Committee of Ways and Means, to $241,980,638, the actual amount after all abatements had been made, and a reduction of the tax levy from $1.50 in 1879 to $1.37 in 1880, the receipts of the city paid all its expenses and also $140,593.31 on account of its floating indebtedness. To quote from the language of Comptroller Vansant, in his annual report for the year 1880: "This favorable condition of affairs may be attributed to the economy practiced by the City Council in making appropriations; the determination of the Mayor and City Council to pass no appropriations whatever after the gross amount of the tax levy had been absorbed by appropriations, and the enforcement of the several ordinances of the city which prohibit the departments of the City Government from overdrawing their respective appropriations."

An examination of the City Register's accounts will show that the taxes in arrears and uncollected amount to $1,840,556.69. It can scarcely be said, therefore, that

with such an asset, the city has any floating indebtedness.

REQUIREMENTS FOR THE CURRENT YEAR.

The estimated requirements for the current year, as shown by the Register's report, are,.....	$5,376,832 73
And the receipts.....	2,882,833 00
Leaving the amount to be levied for..	$2,493,999 73

This is $167,234.82 less than was the estimated amount to be levied for in 1879, notwithstanding that some of the departments have asked for increased appropriations.

The Register refers to the very favorable financial condition of the city at the end of the year, and, almost in the language of the Comptroller, attributes it to the policy of "no appropriations after the adoption of the annual levy, and the enforcement of the ordinance restricting the respective departments to the amount of their appropriations." A strict adherence to this policy should enable the City Government to be liberally administered during 1881, without any increase in the present tax levy.

The report of the City Comptroller furnishes a statement of the sales of city property not used for any municipal purpose, as recommended in my last annual message, and authorized by ordinance approved February 25, 1880. These sales have already amounted to $198,175.00. This amount has been credited to the Sinking Fund. There yet remains unsold a large

amount of this property, including the old City Yard, which will be disposed of during the coming year.

The reports of the City Comptroller and Register are both carefully prepared documents, giving in detail every item of the receipts and expenditures of the City Government.

In this connection I recommend that the salary of the City Comptroller be increased from $2500 to $3000—the amount paid to the City Register. I consider this only a fair compensation for the labor performed in this responsible office by a most laborious public servant.

COLLECTION OF CITY TAXES.

The report of the City Collector shows that the city and State taxes collected for the year 1880 amounted to $4,333,553.09, of which there was collected for the city $3,915,070.56, and for the State $418,482.53.

The following table gives the amount of taxes collected on account of the city for the last three fiscal years:

Amount collected for year ending December 31, 1878	$4,099,144 00
Amount collected for year ending December 31, 1879	3,935,905 78
Amount collected for year ending December 31, 1880	3,915,070 56

In 1878, the levy was $1.90; in 1879, it was $1.50; and in 1880, it was $1.37.

In 1878, the collections were $60\frac{97}{100}$ of the levy; in 1879, it was $65\frac{61}{100}$; and in 1880, it was $70\frac{21}{100}$.

The following table gives the taxable basis for the past four years:

Taxable basis for year ending October 31, 1877	$256,105,341
Taxable basis for year ending December 31, 1878	249,266,595
Taxable basis for year ending December 31, 1879	244,043,181
Taxable basis for year ending December 31, 1880	241,980,638

This taxable basis for the years 1877, 1878, 1879, was, as will be seen from the next table, largely reduced by exemptions, resulting from decisions in the Court of Appeals, &c., &c.

At the close of the year 1880, after all abatements had been made, by reason of decisions in the Courts in the matter of railroad property, religious and benevolent incorporations, &c., &c., the taxable basis for the years 1877, 1878, 1879 and 1880 was as follows:

Basis for 1877	$234,709,492
" 1878	229,383,726
" 1879	235,182,686
" 1880	241,980,638

The taxable basis of 1880 is composed as follows:

Real property	$183,051,396
Personal property	58,929,242
	$241,980,638

The following table shows the amount of the basis on which taxes were collected during the past four years:

Year.	Basis.	Collections on	Amount Collected.
1877.....	$256,105,341.....	$161,947,188.....	$4,649,193 12
1878. ...	249,266,595 .. .	151,982,867.....	4,099,144 00
1879.....	244,043,181.....	160,128,883.....	3,935,905 78
1880.....	241,980,638.....	169,896,579.....	3,915,070 56

The amount of city taxes collected by the City Collector during 1880, as shown above, was $3,915,070.56. This was derived from the following sources:

Taxes in arrears, on a basis of $76,359,257...	$1,338,428 44
Current taxes, on a basis of $169,896,579. .	2,327,583 17
Assessments for opening streets.....	180,012 37
Assessments for paving streets.....	69,046 58
Total.....	$3,915,070 56

A similar table of collections for 1879 is as follows:

Taxes in arrears, on a basis of $73,421,430...	$1,431,814 77
Taxes for year 1879, on a basis of 160,128,883,	2,401,933 23
Assessments for opening streets.....	78,205 43
Assessments for paving streets.....	23,952 35
Total.....	$3,939,905 78

These tables, if carefully examined, will show the following result:

The rate of tax collections on the levy has steadily increased from $60\frac{97}{100}$, in 1878, to $65\frac{71}{100}$, in 1879, and to $70\frac{21}{100}$, in 1880. In other words, while in 1879 taxes were collected on only $160,128,883 of the basis, in 1880 taxes were collected on $169,896,579 of the basis. The

reason why the amount collected in 1880 was less than that collected in 1879, although collected on a basis of $9,767,696 more than in 1879, was due to the reduction of the tax levy from $1.50, in 1879, to $1.37, in 1880.

The same reason accounts for the amount of taxes in arrears collected in 1880, on a basis of $76,359,257, being less than for taxes in arrears collected in 1879, on a basis of $73,421,430—the levy for 1878 being $1.90, while in 1879 it was $1.50.

It will further be seen that the collections in 1880 were much better than in 1879, by the following tables:

1880—Current taxes, basis collected on	$169,896,579	
1880—Taxes in arrears, basis collected on.....	76,359,257	
		$246,255,836
1879—Current taxes, basis collected on.....	$160,128,883	
1879—Taxes in arrears, basis collected on.	73,421,430	
		233,550,313
Excess of basis collected on in 1880 over basis collected on in 1879.....		$12,705,523

This is an evidence of how much more willingly the people pay taxes on a low than on a high rate of tax levy.

But while the collection of taxes has been better during the year 1880 than for many years previous, the

amount falls short of the estimate made by the last City Council. The Council of 1880 estimated the taxable basis for that year at $253,000,000, whereas, after the abatements made by reason of the decisions of the Court of Appeals in the matter of railroad corporations and charitable institutions, and the abatements made by the State Tax Commissioner and the Appeal Tax Court of Baltimore City, the basis was reduced to $241,980,638. While, therefore, the City Collector has most creditably met all the obligations imposed upon him by the Committee of Ways and Means, in collecting 70 per cent. of the levy, the amount realized was $98,687.00 less than that estimated. This is due to the abatements above referred to, made from the estimated taxable basis of 1880. The Committee also exceeded in their estimate the receipts from taxes in arrears, which, although more closely collected than for some time previous, do not reach the very liberal estimate made, as shown by the following table :

Estimated collections in 1880 of taxes in arrears	$1,500,000	
Interest	75,000	
		$1,575,000
Actual collections of taxes in arrears		1,338,428
Actual collections less than estimated		236,572
To which add over-estimate of current taxes		98,687
Actual over-estimate of tax collections		$335,259

Notwithstanding this deficit in the estimated collections, due to the abatements made from the estimated taxable basis, and the over-estimate of collections from taxes in arrears, it is shown in another part of this message that so admirable has been the result of the policy of strict economy practiced by the several departments, and especially the policy of making no appropriations after making the levy, that the actual tax collections under the reduced levy of $1.37 have been sufficient to pay all the expenses of the municipal government, and, at the same time, make a gratifying reduction in the floating debt. The principal over-estimate by the Committee of Ways and Means was in the amount to be collected from taxes in arrears. The non-payment of these taxes during the past year is due to the neglect of the taxpayers themselves. If they had made the payments as estimated by the Committee, the entire floating indebtedness would not only have been paid by the reduced levy, but a surplus would have been left in the treasury. As it is, these taxes in arrears are yet due and collectable: and with such an asset as a set-off it can scarcely be said that we have a floating debt.

The collection of personal taxes during 1880 was very much aided by the resolution of the City Council, approved March 23, 1880, directing that all such taxes "should be collected within one year from the date of the levy thereof."

THE APPEAL TAX COURT.

The report of the Appeal Tax Court shows that the number of permits for the erection of new buildings

during the year was 948, and for additional improvements 548. The following table gives the number of new buildings and improvements, with their assessed cash value, put up in Baltimore during the past three years:

	New Buildings.	Improvements.	Cash Value.
From January 1, 1877, to January 1, 1878....	967	406	$2,037,855
From January 1, 1878, to January 1, 1879....	868	594	1,671,335
From January 1, 1879, to January 1, 1880....	948	548	2,514,455

The assessed valuation made by the Court on shares of the capital stock of banks and other corporations, held by residents and non-residents, was $22,144,903—being more by $1,410,719 than the valuation for the year 1879.

The abatements made during the year were as follows:

From the assessment of 1876.....	$1,504,884
" " 1877.....	7,285,032
" " 1878.....	8,668,995
" " 1879.....	9,497,967
" " 1880.....	10,142,353
Total.....	$37,099,231
In 1879 the abatements were.....	42,020,457
Abatements in 1880 less than in 1879	$4,921,226

The amount of personal property added to the taxable basis during the year—*i. e.*, to March 1, 1880, by as-

sessments made by the bailiffs, has been $4,092,969. In 1879 the assessments only amounted to $999,428.

After all abatements had been made, the taxable basis for the year 1880 was $241,980,638; the net basis for 1879 was $235,182,638.

The large amount of abatements made during the year 1880, aggregating over $10,000,000, is due principally to the result of decisions in the Court of Appeals, exempting the property of railroad corporations; to the exemptions claimed for property belonging to churches, religious and benevolent incorporations, and to cases where the holders of personal property, although doing business in the city, have removed their residence to the Belt; in the latter class alone the city losing, during the past year, over $600,000 of its taxable basis in personal property—certainly a good reason why the city limits should be extended.

The Appeal Tax Court calls attention to the necessity for further legislation in the matter of municipal taxation. A large amount of personal property annually escapes taxation, and values of real estate are constantly changing. Although the Appeal Tax Court has the power to review assessments, and two assessors are employed whose business it is to hear and report upon all appeals for abatement on real estate, and to examine and re-assess such property where it has increased in value, the work is so large, and the acquisition of personal property, with the increase in the business and prosperity of the city, so frequently made by parties who fail to report their good fortune to the Appeal Tax Court, that the only remedy seems to be the adoption

of the system prevailing in other large cities—of having an annual assessment of all property within the city limits. This matter is referred to in another part of the message.

HEALTH DEPARTMENT.

The expenditures for this department for the year ending December 31, 1880, were.	$245,506 42
Expenses for year ending December 31, 1879.	246,392 50
Amount received from sale of refuse for 1880.....	1,968 38
Receipts from same source for 1879.....	3,062 48

The report of the Health Officer states that during the year the sanitary condition of the city was satisfactory. There were no epidemic diseases. The total number of deaths was 8,043—an annual rate of 20.41 per 1,000. In 1879 the deaths were 7,618—an annual rate of 19.30. In the opinion of the Health Officer the death rate in large cities advances or recedes in proportion to the enforcement of sanitary measures. Baltimore is naturally a healthy city; but with increase of population comes the necessity for enactment and enforcement of sanitary laws. For this reason Dr. Steuart again recommends a proper system of sewerage and the abolition of privy vaults; the substitution of fountains, with water from the Gunpowder, for city pumps, and the necessity of some equitable arrangement for the removal of many nuisances now existing in the city, beyond its limits.

The Assistant Health Officer reports the removal during the year of 307,577 loads of ashes, garbage and

street dirt. Much difficulty is encountered in properly cleaning the streets, by reason of the cobble-stone pavements, which act as a dirt retainer, and through which the mud actually oozes in wet weather. Belgian blocks are, therefore, recommended as a sanitary measure. I commend the energy shown and hard work done by this officer in his department. The system he has introduced of cleaning the business streets at night is a great improvement. Attention is also directed to the necessity of providing proper ventilation and traps for many old sewers. Some of these have no other outlet than their communications with the interior of buildings. All sewers require constant flushing; otherwise, they become breeders of disease. Flushing will be more effectually accomplished when we have the large mains and plenty of water with the Gunpowder supply.

The reports of the Health Department contain full and interesting details and statistics, with many valuable recommendations—among the latter the appointment of a commission for the purpose of considering a proper system of sewerage. Full exchanges with all the large cities in this country and Europe are regularly maintained for health reports and sanitary documents, by the Secretary of this department.

MARINE HOSPITAL.

The physician (Dr. Howard) in charge of this hospital, reports the management of his department during the past year. His post is a responsible one—at the gateway of the city, to prevent the introduction of disease. He again recommends the separation of the pest

and quarantine hospitals, by the erection of a suitable boarding wharf and buildings at what is known as Leading Point, on ground owned by the city a short distance south of the present hospital buildings; this to be used as a quarantine-inspecting station, and the present buildings as a pest hospital. At the last session of the Council an appropriation of $5,000 was made for the purpose of constructing this wharf, but it being subsequent to the levy, I was compelled to withhold my signature. The increased commerce of the port requires that some improvement should be made in the quarantine accommodations. The amount appropriated for this department during the past year was $15,000; while the receipts returned to the treasury amounted to $9,320.97. The number of vessels boarded and inspected was 1,070, of which 272 were steamships; a greater number of the latter than ever before visited the city in one year.

FIRE DEPARTMENT.

Baltimore has reason to be proud of its Fire Department. With a small force, consisting only of 13 engines and 4 hook and ladder companies, with a membership of 212 men, it has earned, by its efficiency and discipline, an enviable reputation, both at home and abroad. The expense of maintaining this department for 1880, was $179,859.00—this is $7,454 more than was appropriated by the Council, which reduced the estimate asked for from $179,859.00 to $172,405.00. The department is, therefore, in debt to the above extent. Notwithstanding this deficiency, the management has

been judicious and economical. The calls on the department were very heavy in 1880. The number of alarms being 343, whereas, in 1879, it was only 153. The loss by fire was $580,290.43. A large expense is entailed for repairs to apparatus, caused by wear and tear. From 1870 to 1875, four new engines were built; the other machinery, consisting of 14 engines, has been in constant service from 15 to 22 years. Fire apparatus suffers much from use in this city, owing to our rough streets and deep gutters; the breaking of an axle causing the sudden fall of the heavy and complicated machinery, entails generally a large expense. During the past year the department has responded to 12 alarms of fire in the Belt, at which the losses were $153,600, and would in each case have been a total loss involving also much adjoining property, had it not been for the efforts of this department—our neighbors in the Belt having provided no adequate means for protecting their property from fire. The attendance on these fires always entails a heavy expense in the wear and tear of apparatus, the strain upon horses, (one of the best animals in the department being lost last year from the effect of a long run to Highlandtown,) and especially from loss of hose, owing to the fact that the county has made no provision for fireplugs, and the source of water supply is generally a long distance from the fire; and yet we cannot well refuse to go to the assistance of our neighbors when called upon.

These calls upon the Board for absolutely necessary expenditures, have shown that their estimate for

expenses in 1880, was very carefully made. The proper maintenance of the fire department is a matter in which all are interested, and I, therefore, recommend that a liberal provision be made for its support. The estimated requirements for 1881, are $189,092, which, with the deficiency in 1880, of $7,343, will amount to $196,435. An extra expense is entailed by the organization during the past year, of the new Hook and Ladder Company No. 4, located on Biddle street, at the place formerly occupied by the Mount Vernon Truck Company.

The report of the Fire Commissioners embraces many recommendations for improving the efficiency of the department, to which your attention is invited, among others, the passage of an ordinance decreasing the number of men in each house from 8 to 7, and in each hook and ladder company from 10 to 9, and creating an additional houseman for each company. It also recommends obtaining longer ladders for the truck companies, in view of the increased height of buildings being erected in Baltimore.

It must not be forgotten that the purchase by the United States of the lot for the Post-Office building, necessitates the removal of No. 4 Engine Company. With this view, I recommend that the Mayor and Comptroller be authorized to purchase a suitable lot of ground for this purpose, at a sum not exceeding five thousand dollars. I think this amount will be sufficient.

BAYVIEW ASYLUM.

There were admitted to this institution during the year, 1850 persons; the number of births was 53, aggregating 1903 persons receiving its benefits. In 1879, the number of beneficiaries was 1491. The average number of inmates during the year was $704\frac{9}{12}$. The amount expended for the maintenance of the institution was $58,003.44, from which should be deducted $1,767.40, received from sundry sources and paid into the city treasury, thus reducing the net amount expended by the Trustees to $56,236.04, a cost per capita per annum of $79.79½. The number of inmates on December 31, 1880, was 828, of whom 686 are white, and 142 colored. On December 31, 1879, the number was 794, and on December 31, 1878, it was 822.

The Board of Trustees of the Poor are entitled to much credit for the admirable and economical manner in which this large institution is managed.

During the past year, in accordance with the recommendation of the Board, an appropriation of $50,000 was made, for the purpose of erecting a separate building, in connection with this Asylum, for the accommodation of the indigent insane. A lot of ground, containing 14 acres, adjoining the land at Bayview, has been purchased, and the plans of the building have been adopted. It will be commenced as soon as the weather permits, and, when completed, will provide much more suitable accommodations for that class of unfortunates than is afforded in the present building. Its erection will also prove a measure of economy, as the city now pays at the rate of $150 per annum for

each of its insane patients sent either to Spring Grove or Mount Hope Asylums. A considerable saving in this connection has already been effected by the passage of the ordinance recommended in my last annual message, reducing the amount paid by the city from $200 to $150 per annum, the amount paid by the counties.

During the year the Board of Trustees have very much improved the ventilation and drainage of the building, and provided an ample number of fire extinguishers and hose, to guard against any accident from fire. The building has also been connected by telephone with the city fire department. Complaint is still made by the Board of an inadequate supply of water. This, however, will be remedied on the completion of the Gunpowder works.

JAIL.

The expenses of the Jail for the year ending December 31, 1880, were $44,765.03; from this should be deducted $6,628.62, the amount received from labor of prisoners and other sources and turned into the city treasury, making the actual cost for maintaining the prison $38,136.41—a most gratifying exhibit of the economical management practiced by the Board of Visitors. The number of prisoners committed during the year was 8532, being 647 less than during 1879. In 1879, the commitments were 9179, and in 1878, 11,729—an indication that the Jail is gradually ceasing to be regarded as a pleasant winter resort for the bummer class to pass their days in comfortable idleness. The

health of the institution has been excellent, only two deaths occurring during the year.

The present Board of Visitors, with their most efficient Warden, deserve much credit for their admirable management of this institution. It is a model prison, and, as such, a credit to the City Government. The system of employing the prisoners (introduced in 1879) has been most successfully continued, and at this time all sentenced inmates are engaged in some kind of labor. If the application of the Board, for an appropriation to provide for the erection of suitable buildings, is adopted, the Jail, under its present efficient management, will soon become, in a large measure, self-sustaining.

Among the improvements introduced are uniforming the sentenced prisoners; the construction of large water tanks, and compulsory cleanliness on the part of inmates; the lighting of the building by electricity, which, with the steam power used in the Jail, is done at about one-half the cost of gas; and especially feeding the prisoners at tables placed in the lower corridor, instead of, as formerly, in their cells. The system of discipline, cleanliness and good order is admirable.

The report of the Board of Visitors is a most interesting document, giving a history of the Jail, and its management, from the time of its erection to the present, and setting forth, in clear and forcible language, the reforms introduced by the Board, and the requirements of the institution. I commend the suggestions and recommendations of the Board of Visitors to your favorable consideration.

PARK COMMISSION.

The report of the Park Commission gives the following statement of its receipts and expenditures:

Balance on hand December 31, 1879	$2,429 85
Receipts from city passenger railways	96,431 24
Receipts from rents, sales of sheep and deer, sale of lot of ground, &c	10,778 57
	$109,639 66
Less amount paid as interest on park stock.	33,333 96
Remaining for park purposes	$76,305 70

Expenditures for Druid Hill Park	$58,015 28
Expenditures for Patterson Park	11,328 00

Riverside and Federal Hill Parks are maintained by special appropriations made by the Mayor and City Council.

The following table gives the visitors to Druid Hill Park in 1880:

Double and single carriages	201,180
Equestrians	24,014
Pedestrians	941,963

No appropriations were made for maintenance of Druid Hill or Patterson Parks, the revenue used for the purpose being derived from the sources above given.

The number of visitors is an evidence of the popularity of the public parks, and the large number of pedestrians entering Druid Hill, indicates that its beau-

ties are enjoyed by rich and poor alike. The principal improvement at Druid Hill Park during the year has been the extension of the park to North avenue, thereby including within its limits Mount Royal Reservoir, and the erection at this new entrance of a handsome white marble gateway. The Commissioners were enabled to do this, by the fortunate sale, for $7,500, of a lot on Lawson's lane, purchased a few years since by the city for $3,000, and formerly used as a station for the dummy engines. A wide avenue has been laid out and well graded, leading from this entrance to the park, and a substantial stone retaining wall erected to support the embankment on the line of the Northern Central Railway shops. It is proposed during the coming season to beautify and improve this avenue by planting evergreens on its east side, and laying out handsome flower beds near the entrance.

Another entrance to the park is contemplated at the north end of Eutaw street, as soon as certain arrangements can be agreed upon with the property holders in relation to establishing a proper grade for the new approach.

Both Patterson and Druid Hill Parks have been kept in admirable order during the past year. The flock of Southdown sheep at Druid Hill continues a great attraction to visitors, and quite a revenue was obtained last year by the sale of the ram lambs, which are sought for from all parts of the country on account of the purity of the breed. At Patterson Park the greenhouse continues to be largely visited, and the city is gradually acquiring, through the knowledge and skill

of Mr. Frazier, the Superintendent, a collection of rare and valuable plants. Riverside Park is improving as the trees increase in size, and is already a favorite place of resort for the people in that neighborhood. Federal Hill Park is in process of improvement. The appropriation of $15,000 made by the last Council has been judiciously expended in the erection of a substantial wall along the base of the hill on the lines of Hughes and Warren streets, and in sloping and terracing the bank on Hughes street, and leveling the surface of the hill. The necessary requirements for proceeding with these improvements are fully set forth in the report. The labors of the Park Commission are largely increased by the addition of the care and management of Federal Hill and Riverside Parks, and its members are to be congratulated on the faithful and economical manner with which they have discharged the duties of their honorary positions.

GAS AND ILLUMINATING OILS.

The report of the Inspector in this department is herewith submitted. It contains much valuable information on the subject. The average standard of gas furnished to citizens during the year was 18.71 candles; in 1879 it was 18.43, thus showing a gradual improvement. In 1877 the quality furnished was only 14.59. Our citizens may, therefore, congratulate themselves on a marked improvement in this most necessary commodity during the past few years. The Inspector complains of the inefficiency of his apparatus for the work of his office, and asks a small appropriation for improving it.

The ordinance approved October 26th, 1879, providing for an inspection of coal oil, has produced most beneficial results. The number of samples of oil inspected during the year was 5,376, and of those condemned 238. The ordinance requires some amendment to make it more effective, it being difficult to obtain the conviction of an offender under its present form. Defective as it is, the following table will show that it has done much to mitigate the "coal-oil horror:"

Year.	No. of Accidents.	Injuries.	Deaths.
1876	65	29	15
1877	62	23	9
1878	91	50	15
1879	48	26	6
1880	28	6	2

The ordinance went into effect on the 27th October, 1879. Comment is unnecessary. I recommend that the suggestions made by the Inspector to render the ordinance more effective, be adopted.

The following table shows that the office has been self-sustaining:

Receipts from licenses in 1880		$2,123 00
Salary of Inspector and Assistant	$1,300 00	
Office expenses	75 00	
		1,375 00
Balance in the treasury		$748 00
To which should be added salary formerly paid Inspector of Gas, now consolidated in this office		365 00
		$1,113 00

SUPERINTENDENT OF LAMPS AND INSPECTOR OF METERS.

The report of this officer gives the number of gas lamps in the city as 5,032, exclusive of those in parks or squares, and of gasoline 1,115—an increase during the year of 185 of the former and 117 of the latter.

Many sections of the city are yet very badly lighted, and the necessity for some improvement in this respect is manifest. Much objection is made by property-holders to the erection of gasoline lamps, which are put up in those outlying portions of the city where the gas mains have not been extended.

It has often been suggested that the gas lamps should be lighted every night, irrespective of the moon. This is a matter of expense. Baltimore is one of the few large cities in the country which does not light its streets every night. The questions for your consideration are what will it cost and can we afford it? During the past year a contract has been entered into with the gas companies, by which gas is now furnished to the city for $1.85 per thousand feet—this is 35 cents more than was paid in 1879, and 65 cents less than was paid before the introduction here of the Lowe process. At present the only public use here of the electric light is at the Baltimore City Jail.

CITY SOLICITOR.

The report of this officer furnishes a full and detailed statement of all suits to which the city has been a party, tried during the past year, with a list of those now pending in the Court of Appeals. The business of

this department has been well attended to, and all cases promptly tried. By advice of the City Solicitor, the Commissioners for Opening Streets have stopped all proceedings under ordinances passed for the opening of new streets until further action can be had in each case by the City Council. This course is rendered necessary by the decision of the City Court, in the matter of opening Douglass and Cathedral streets. State legislation in this connection is needed to definitely settle what are the actual requirements of the law in such cases. In the meantime, should the Council see proper to enact any legislation for the opening of a street, the ordinance should first be submitted for review to the city law officers, in order that even the doubtful requirements of the law might be complied with. The necessity for this course is seen in the case of Douglass street, for the opening of which two separate ordinances have been passed, each of which were subsequently set aside by the Courts, thereby causing the city to incur a large expense in uselessly paying for all the proceedings connected with the condemnation.

REFORMATORY INSTITUTIONS.

The reports of the House of Refuge, Saint Mary's Industrial School for Boys, the Maryland Industrial School for Girls and the House of Reformation and Instruction for Colored Children are submitted for your information. It will be seen that these institutions continue to be managed in their usual admirable and economical manner. The several appropriations made for their benefit are undoubtedly advantageous to the

community—provision being thus made for the support and reformation of a class of juvenile offenders who would otherwise become burdens as inmates of the jail or penitentiary. I therefore recommend that the assistance heretofore given to these institutions be continued.

CITY COMMISSIONER'S DEPARTMENT.

Street Paving, &c.

The report of the City Commissioner gives a detailed statement of the work done in this department. During the year 1880, 487,787 square feet of cobble-stone pavement have been laid—an increase of 59,662 square feet over the amount laid in 1879. Belgian blocks have been laid to an extent of 2,042 square yards.

In another part of this message I recommend that the city lay no more cobble-stone pavements. While the first cost of the Belgian blocks is larger, it will be found that its durability renders it more economical. Since 1874, 5,405,394 square feet of cobble-stones have been laid, and 87,628 square yards of Belgian blocks. Any kind of cobble-stone pavement is bad enough, but the system of laying it in Baltimore produces the very poorest of its kind. Most of it requires repairing within two years after it is laid. The fact that the adjacent property-holder pays his portion of the work, requires it to be contracted for to the lowest bidder, and in most cases the price paid is not sufficient to give either good material or creditable work. If it was done by the city itself, or given out at fair prices, the

cobble-stone pavement would be better, and, therefore, more economical.

The amount appropriated for repaving during the past year was $72,500. This was expended judiciously and economically in repairing, as far as practicable, the old cobble-stones, and resetting or renewing old kerbing. The work was done by the city better and cheaper than when done under contract—the amount of repairing during the year being equal to 2,709,605 square feet of paving and 27,640 lineal feet of kerbing, requiring 24,300 cart loads of sand and 5,930 perches of new stone. The difficulty about repairing these old pavements is the fact that many of the cobble-stones are completely worn out. I therefore suggest that in making an appropriation for repairs, authority be given to make them with Belgian blocks, by repaving with these blocks the centre of the street where travel is heaviest.

In consequence of a decision in the Court of Appeals, (the case has since been re-argued, and is, therefore, not yet finally determined,) all paving work on the new streets has been stopped, except on such streets as were under contract previous to the said decision. The opening and paving of Calvert street from Biddle street, and North street from John street to North avenue, in connection with the completion of the North and Calvert street bridges, opens two important thoroughfares, which have greatly relieved Charles street.

An important improvement in this portion of the city has been suggested in the continuation of Oliver street, or, as it is called, Mount Royal avenue, as now

laid out, 125 feet wide, from North avenue, opposite the Mount Royal entrance to Druid Hill Park, from its present terminus at Dolphin street, through the Bolton depot, across Cathredral street, and by a curved line into Hoffman street, which, widened to the same width, should be continued up to North street. This would necessitate the removal of the Bolton depot, and add greatly to the improvement of all that section of the city.

An important work completed during the past year has been the opening, grading and paving of North avenue, from Belair to Pennsylvania avenue, extending as it does nearly the entire distance on the northern boundary between the eastern and western limits of the city. That portion of North avenue lying between Charles street and the falls has been greatly improved by the laying out in its centre of squares similar to those in Eutaw Place. This was done and paid for by the adjacent property-owners.

Sewers.

The work on Harford-run sewer, from Canton avenue to its outlet at City Dock, has progressed as rapidly as practicable; it being necessary to avoid the construction of coffer-dams, usual in such cases, to prevent injury to private property by backing up water during heavy rains. The tunnel for diverting the drainage of the run north and east of the intersection of Ann and Eager streets into the valley of Harris' creek, thus relieving the Harford run sewer south of that point, has been actively pushed forward since its commencement

last summer, and is now progressing in a satisfactory manner. The entire work will be completed during the present year, and greatly relieve a section of the city which has long suffered from a most intolerable nuisance. In connection with this improvement, and in view of the future development of all that section of the city lying east of Patterson Park, in the valley of Harris' creek, the Commissioner recommends the importance of maturing plans for the purpose of conveying the drainage from Monument street to tide-water. A partial survey has been made for a tunnel from Monument street, in the bed of Patapsco street, to Lancaster, of sufficient capacity to receive the water from Harford run and Harris' creek, the construction of which is recommended. This will prevent in future the difficulty now being encountered in the cases of Harford, Chatsworth and Schroeder's runs, where private citizens were permitted to arch over the streams, where they passed through private property, without taking any measures to divert it into lines of streets.

It is also recommended that Schroeder's run sewer be continued from its present outfall on Carey street to the Spring Gardens. The contemplated change of grade at the intersection of Paca with Fremont street, for which an appropriation was made, has not been done. After a careful survey of the locality it was found impracticable to improve the neighborhood until a sewer is constructed from Columbia avenue, along Fremont and Eutaw streets to the Spring Gardens. Attention is called to the condition of Chatsworth Run sewer, between Lombard and King streets.

It is in a dilapidated condition, liable to fall at any time. Some arrangement should be made with the owners of property under which the sewer runs, by which it can be reconstructed and its capacity enlarged.

Bridges.

During the year the city bridges have been kept in good repair, the floors and joists of several having been renewed. Attention is again called to the condition of Harman's bridge. This structure is very much out of repair—it was old and dilapidated when purchased by the city. It would be an advantage to get rid of this bridge altogether, by opening and grading a street upon or near the same line, with a short trussed bridge spanning the channel of Gwynn's Falls. During the past year Light Street bridge has become the joint property of Baltimore and Anna Arundel county. It is a very long wooden structure, and will require a constant expenditure for repairs. The bridge over Gwynn's Falls, on the Washington turnpike, has also to be maintained by the city.

JONES' FALLS IMPROVEMENT.

The Mayor and City Commissioner constitute a Commission for the improvement of Jones' Falls. During the past year the work of the Commission has been as follows:

The sustaining walls on the west side of the falls, and on the south side of the City Dock, together with the piers, abutments and iron superstructure of the

new drawbridge have been completed. A visit to the lower end of the falls, where it enters with the new curved line into the back basin, will satisfy an observer that this work was a most important improvement.

North and Calvert street bridges have been completed, and are now open for travel. Saint Paul street bridge will be finished in the early spring. These three important public works, although expensive, will, in my judgment, within a very few years, amply repay the cost of construction by the enhancement of the value of property in that neighborhood. The bridges were designed by Mr. Charles H. Latrobe, Civil Engineer, and for beauty, strength, excellence of construction and cheapness of cost, will favorably compare with any similar public work in the country.

The dimensions of these bridges are as follows:

North street bridge—length, 346 feet 6 inches; width, 60 feet; divided into two spans of 173 feet 3 inches wide, each.

Calvert street bridge—length, 571 feet 3 inches; width, 60 feet; divided into two arched spans 114.4 and 146 feet respectively, and two viaducts, resting on iron columns, 195.11 and 115 feet long, each.

St. Paul street bridge—length, 693 feet; width, 60 feet; divided into two arched spans of 108 feet and 276.6 each, with a viaduct of 308.6, supported on iron columns.

The piers and abutments of these bridges are of the best style and quality of granite masonry. The

superstructures are of iron, and the floors of Calvert and Saint Paul street bridges of asphalt, laid upon iron plates. In addition to crossing the falls, they pass entirely over the grounds and tracks of the Potomac Railway.

The estimated cost of the Calvert street bridge was $213,580, the actual cost being $219,140.02. The large number of vehicles daily crossing this bridge, the grading of the lots in the vicinity and preparations for building, are evidences of the improvement in the value of property in the neighborhood.

The masonry of the pier and abutments of the Chase street bridge is practically completed, and the iron superstructure is under contract and will be finished during the present year.

A new bridge on the line of Pratt street is under contract, and will be erected within a few months.

The work on that portion of the falls, between Hillen and Low streets, which has been delayed by proceedings for obtaining the right of way, now finally settled, will be proceeded with as soon as the weather permits. This includes the straightening of the line of the falls and the erection of a new bridge at Gay street. The work, when finished, will complete the lines of retaining walls and the erection of new bridges, from Madison street to the outlet at the basin.

WATER DEPARTMENT.

The report of the Water Board gives the following statement of receipts and disbursements for the year ending December 31, 1880:

Receipts from all sources during the year 1880.....	$1,048,227 85	
Balance on hand December 31, 1879.....	418,697 14	
		$1,466,924 99
Disbursements during year 1880:		
Working expenses for the year.....	$ 87,419 13	
Gunpowder Permanent Supply.....	426,241 12	
Distributing Mains for Permanent Supply.....	275,821 47	
Lake Clifton.....	92,516 75	
Distributing Main for Lake Clifton.....	18,192 20	
Dredging Lake Roland.....	3,556 98	
Water Meters.....	4,567 45	
Fire-Plugs and Fountains...	4,049 80	
Real Estate, Gunpowder Supply.....	1,641 15	
Returned Money.....	1,905 68	
Tools and Fixtures.....	322 99	
Paid interest on Water Stock.....	439,190 00	
	$1,355,424 90	
Credit of Permanent Supply, December 31, 1880....	112,975 07	
Cash in hands of Water Registrar.....	1,489 39	
	$1,469,889 36	
Less Revenue Account overdrawn.....	2,964 37	
		$1,466,924 99

The sources from which the receipts were derived in 1880 were as follows :

From Water Rents	$579,326 36
Plumbing Department	20,192 71
Interest	6,350 06
Sales of Real Estate	25,685 00
Sundry sources	1,009 93
Sales of 1894, 5 per cent. Water Stock	415,663 79
	$1,048,227 85

Revenue collected in 1880, compared with that collected in 1879, exclusive of receipts from sales of real estate :

Revenue in 1880	$606,881 06
Revenue in 1879	552,877 27
Increase of revenue for 1880	$54,003 79

It will be seen, from the above figures, that notwithstanding the extraordinary expenses incurred, the revenue of the Department was sufficient to make it self-sustaining, even after paying the interest on all the city stock issued for construction of the old and new works. The Permanent supply, distributing mains, and Lake Clifton, as far as this work has progressed, have been paid for out of the general fund derived from all sources, and credited to the general revenue account—no special appropriations having been made for either work.

The amounts expended for the Permanent Supply in 1879 and in 1880 are as follows:

Expended in 1879.....	$64,803 85	
" 1880.....	275,821 47	
		$340,625 32

Amount expended on Lake Clifton in 1879 and 1880:

Expended in 1879.....	$42,115 95	
" 1880.....	92,516 75	
		$134,632 70

showing an aggregate of $475,258.02 expended in the two years for new and permanent work out of the revenue of the department.

The construction of Lake Clifton, which was subsequently found necessary for the proper completion of the Gunpowder Supply works, was not contemplated in the original plan, and has been constructed, as have also been laid the large and expensive mains for distributing the water from the Gunpowder, out of the surplus revenue of the department. In 1879 interest was paid from the revenues of the Water Board on $8,621,200 of City Water Bonds; in 1880 interest was paid on $8,781,200 of these bonds.

GUNPOWDER SUPPLY.

The introduction of the water from the Gunpowder is now rapidly approaching completion. The large mains, the laying of which interrupted travel on Lombard street during the past summer and autumn, is an evidence that the people of Baltimore will soon enjoy the benefit of this great public improvement. Very

few persons are aware of the magnitude of the work. When completed it will be an additional monument to the enterprize of this city. A visit to Loch Raven and Lake Montebello will amply repay any one feeling an interest in the best class of hydraulic engineering. Scientific engineers from abroad who have seen the work, are liberal in praising the ability of the Baltimore engineer who planned and superintended it, and the economy, skill and judgment with which it has been conducted. It seems singular that so few of our own citizens have ever seen the great white marble dam and gate-house at Loch Raven; the seven marble bridges, each of different design, spanning the streams emptying into the lake, or the immense excavation, now finally completed, with its equally fine gate-house of white marble for Lake Montebello.

During the coming summer, when Montebello is filled with water, and the magnificent drive of nearly two miles in length, and from 80 to 100 feet wide around its margin, is completed, many people will be surprised to realize that Baltimore has a system of water works unequaled in the United States, affording a supply of water nearly double that of the great city of New York.

The following statements will give some idea of its magnitude: Loch Raven is located about eight miles from the city, in the bed of the Gunpowder river, and is formed by the erection of a stone dam, of heavy rubble and cut masonry, across the falls. The lake thus formed will be 170 feet above tide, and extend up the river five miles to Meredith's-ford bridge. At the dam the depth of water will be 20 feet. Loch Raven is now

almost completed. All that remains to be done is clearing and grading the carriage drive on either side. The dam is rapidly approaching completion, and will be finished during the early summer.

The conduit leading from the gate-house at Loch Raven to the gate-house at Lake Montebello is seven miles in length. Its diameter is 12 feet, and its depth below the surface varies from 32 to 356 feet. The depth of this tunnel may be realized by the fact that at one point on its line its depth below the surface is over twice the height of Washington Monument. 29,625 feet of the tunnel is cut through solid rock, every foot of which had to be blasted out with dynamite. This portion required no arching. The remaining 6,875 feet was through softer material, and is arched with brick. The tunnel is finally completed. Its entire cost was $1,779,610.24.

Lake Montebello is located between the Harford and Hillen roads. Its surface elevation will be 163 feet above tide, area 80 acres, depth 30 feet, storage capacity between five and six hundred millions of gallons. A tunnel nine feet in diameter has been constructed under this lake to divert the waters of a stream flowing through the valley in which it is located. Lake Montebello is now completed, and ready to receive its water from the Gunpowder.

The construction of Lake Clifton was rendered necessary on account of the muddy condition of the Gunpowder water, so frequently during the year, requiring an increased lake storage. It is located on the Clifton estate of the Johns Hopkins University, will be elipti-

cal in shape, with a capacity of 265 millions of gallons. The gate chambers at Lake Clifton are pierced for six forty-inch cast-iron mains to supply the city. These mains will be laid under the bed of Washington street extended, through the Clifton estate, as laid down by the Johns Hopkins trustees, to the city limits, at the intersection of Washington street and Boundary avenue.

From this point the water will be circulated through the city.

Washington street extended, through the property of the Johns Hopkins University, has been graded for the laying of the forty-inch mains. Two stone culverts under Washington street, on this property, have been built, and Washington street, between the south boundary of the trustees' property and the north boundary of the city, has also been graded. A thirty-inch iron drain-pipe 1,050 feet long has been laid from the gate chambers at Lake Clifton to one of the stone culverts under Washington street. There was laid 276 forty-inch cast-iron mains on Washington street, during the past year, these mains now extend up Lombard street beyond Paca street.

The completion of the Gunpowder permanent supply works during the year 1881, will be a most important event in the history of the city, and should not be permitted to pass without some public demonstration.

PUBLIC SCHOOLS.

The report of the Board of School Commissioners gives in detail an account of the working of this department during the past year.

The number of school houses at the close of the fiscal year was 125, with 822 teachers and 36,337 enrolled pupils. The pupils are classified as follows:

1 Baltimore City College	560
2 Female High Schools	846
38 Grammar Schools	10,660
59 Primary Schools	15,652
5 Public Schools (formerly English-German)	3,440
14 Colored Day Schools	4,139
4 Colored Evening Schools	781
1 White Evening School	184
1 Normal Class	75
Total	36,337

Number of White Pupils	31,417
" " Colored "	4,920
" " Pay "	12,496
" " Free "	23,841
" " Male Teachers	104
" " Female "	718

Receipts, Appropriations and Expenditures.

The total receipts from all sources for use of the schools were as follows:

City Collector	$366,518 38
State Treasurer, for White Schools	128,745 55
" " " Colored "	18,558 44
Pay Pupils for use of books	46,162 90
Jno. F. Plummer, annual interest on legacy	129 59
	$560,114 86

The appropriation made by the City Council for the support of the schools for the year 1880, was $620,000, being $20,000 less than the estimate submitted by the Board. In the above receipts from pupils for use of books, is included the sum of $3,332.31, received from 236 non-resident pupils.

Expenditures in 1880.

The amount expended by the Board for the current expenses of the schools was as follows:

Salaries—white schools	$457,943 30
Rents and ground rents—white schools	26,512 44
Books and stationery, "	30,460 05
Heating apparatus and repairs, "	9,369 76
Furniture, "	6,618 45
Fuel, "	11,140 19
Repairs and cleaning houses, "	6,836 13
Incidentals, printing and supplies—white schools	6,233 96
Salaries—colored schools	52,266 45
Other expenses, "	9,771 91
	$617,152 64
Heating apparatus for No. 1 School, new building, reserved and carried over to 1881	2,845 00
	$619,997 64

The expenditures reported by the Inspector of Buildings were as follows:

General repairs of school buildings.....	$24,997 15
Balance paid for new building corner Green and Fayette streets—No. 1..	14,815 75
On account of Grammar School No. 7, on Eastern avenue.....	7,023 20
	$46,836 10

The total expenditures therefore by the Board, and the Inspector of Buildings, on account of the schools, excluding the amount reserved for heating apparatus at No. 1 School, were $663,988.74—being much less than the amount annually expended for the support of schools in other large cities.

The per capita cost for current expenses paid by the Board on number enrolled, was.....	$16 98
On average attendance, was.....	17 48

In the city of Boston, with a population about equal to that of Baltimore, the amount expended for Public Schools during the past year was $1,519,000; the average cost per pupil being $28.53.

The per capita for current expenses paid by the Board, and expenditures by the Inspector of buildings on number enrolled, was.....	$18 27
On average attendance, was.....	22 16

Estimate for 1881.

Salaries—white schools		$465,000 00
Rents and ground rents—white schools		29,000 00
Books and stationery,	"	40,000 00
Heating apparatus and repairs,	"	10,000 00
Furniture,	"	8,000 00
Fuel,	"	13,000 00
Repairs and cleaning houses and furniture —white schools		8,000 00
Incidentals, printing and supplies—white schools		8,000 00
Colored schools		64,000 00
		$645,000 00
Heating apparatus for No. 1, reserved and carried over to 1881		2,845 00
		$647,845 00

The report of the Board calls attention to the fact that a large number of school houses are in need of repair, and many of them of enlargement; also, to the necessity of from time to time providing for the erection of new buildings. In regard to the present condition of the schools, it says:

Condition of the Schools.

"Good progress has been made in the schools during the past year, though there has not been the usual annual increase in number of pupils. Many of the houses have been so crowded and uncomfortable, that, doubtless, some parents have refused to endanger the

health of their children by sending them to those schools. The Board is now making a survey of all the school houses, for the purpose of ascertaining their seating capacity, with proper regard to the health and comfort of the pupils; and when this is ascertained, no more pupils will be admitted into any school than can thus be comfortably seated.

"During the past year the Board passed an order, directing that two colored schools should be opened—one in the western part, and the other in the eastern part of the city—on the first Monday in January, 1881, under the charge of colored teachers; but, at the last meeting in December, the order was rescinded, and those schools, therefore, are continued under the charge of white teachers.

"We renew the application heretofore made, that the Board be authorized to be incorporated under the general laws of the State, and thus be enabled to execute all necessary contracts authorized by the city ordinances, and to defend all suits and prosecute all claims, in its corporate capacity. As now organized, the members of the Board have been compelled to personally defend in Court their official acts, and we think they should not be subjected to this trouble and expense."

Impressed as I am with the opinion that the happiness, prosperity and well being of a community, depend in a large measure upon the proper diffusion of knowledge among the people, I do not hesitate in earnestly recommending a liberal provision for the support of the Public Schools.

MARYLAND INSTITUTE.

A memorial is sent herewith from the Maryland Institute for the promotion of the mechanic arts, petitioning for an annual appropriation, enabling it to educate teachers to give instruction in the various branches of art and design in the Public Schools. The art of drawing already forms a part of the system of our public school education.

In order that scholars may become proficient, it is necessary to provide competent and skillful instructors. The School of Art and Design is well calculated to furnish this means of instruction. The Maryland Institute has a well-earned reputation, established through the success of its graduates, in almost every large city in the Union.

COMMISSIONERS FOR OPENING STREETS.

The report of this department gives the number of streets, with their names, which were proposed to be opened during the year by ordinances passed by the City Council, including the condemnation of property for widening and straightening Jones' Falls. Had these ordinances all been carried into effect, the benefits charged to the city would have been $347,906.79, and the amount of costs $12,416.21. In 1879 the benefits charged to the city on this account were $57,753.25, and the amount of costs $6,957.36.

The most expensive street openings contemplated were those of Douglass and Cathedral streets—the cost to the city in the former being $190,170.74, and in the

latter $38,706.06. In the appeal cases tried before Judge Garey at the September, 1880, Term of the Court, the proceedings in both of these cases were set aside on the ground of informality and non-compliance with the terms of the law. This decision of the Court will doubtless require the re-enactment of both of these ordinances. The tax levy of 1881 will, therefore, be relieved to that extent. Under the instructions of the City Solicitor, the Commissioners have discontinued all further proceedings in uncompleted street condemnations. The cost to the city for property condemned for the widening and straightening of Jones' Falls, as shown by the report, is $61,311.12. This amount will be paid from the proceeds of the sale of bonds issued for the Jones Falls' improvement.

INSPECTOR OF PUBLIC BUILDINGS.

The amount placed to the credit of this department for the year ending December 31st, 1880, was	$71,800 00
Amount expended	63,573 29
Leaving an unexpended balance of	$8,226 71

The expenditures include the cost of the new Grammar School Buildings Nos. 1 and 7. The receipts of the department from the issue of permits for the erection of frame sheds, bay windows, steam boilers, &c., were $5,017.67—being $1,278.48 more than for the preceding year. The estimated requirements for 1881 are $87,523, including $15,000 for the erection of a new school house in South Baltimore, provided for by an ordinance passed

by your Honorable Body. During the past year two new school houses have been built—Male Grammar No. 1, at the corner of Fayette and Green streets, and Grammar School No. 7, on the corner of Eastern avenue and Burke street. The latter building, which fronts on Patterson Park, is not yet finally completed, but will be ready for occupation in March next. The public school buildings and market houses have been kept in repair as far as permitted by the amount of the appropriations. In the report of the Inspector of Buildings, which is very full and satisfactory, attention is called to the necessity for repairing and repainting a number of school houses, a list of which is there given. While the amount annually required for the repairs of these buildings is apparently large, it must not be forgotten that the city has now 126 school buildings, many of which having been built and in constant daily use for some years, the ordinary wear and tear requires quite a large sum to repair. The attention of the Council is also directed to the necessity for repairing several of the market houses, and especially for repaving the Lexington market house. These buildings pay quite a revenue to the city, and the butchers and others who occupy them, being tenants, have a claim upon the city, their landlord, to keep the house in proper repair. The recommendation of the Inspector in this connection, is entitled to consideration. Your attention is also directed to the fact that many of the old school houses are deficient in the means afforded for the rapid egress of the scholars, in the event of a fire or panic during school

hours. In such cases proper alterations should be made, and where necessary, fire escapes provided.

The repairs provided by the last City Council, for the City Hall building, have been faithfully and judiciously made under the supervision of the Inspector; some further work is necessary, however, in this connection, and I recommend that the request of the Inspector for a small appropriation to be used for the purpose, be complied with. The necessity for further legislation in regard to the power of the Inspector of Public Buildings to cause the removal of dangerous walls is again referred to. This power is fully provided for in the law prepared by the committee appointed by the Mayor, under the authority of the last Council, to frame and report a new building law; it is commented upon in another part of this message.

My attention has been called by the Register of Wills to certain repairs necessary at the Orphans' Court, a small appropriation will be asked for this purpose.

HARBOR BOARD.

The people of Baltimore are indebted to its Harbor Board for effective work in deepening the harbor and widening its channels. The result of these efforts is shown by increased commerce and the number of large sailing vessels and steamers coming here for grain and merchandise. The money appropriated in this connection has been judiciously expended, and I earn-

estly recommend a continuance of liberal support for this important department.

The amount of deposit excavated and removed during the past year was 538,478 cubic yards; the average cost of which, including all expenses of supervision, maintenance and repairs of tugs, pay of watchmen, &c., was $16\frac{17}{100}$ cents per cubic yard--about one cent less than the cost for 1879. Under the old system of the city yard, the cost was from 37 to 38 cents per cubic yard. The excavations were distributed as follows:

From head of Basin	32,131	cubic yards.
Upper Middle Ground	346,691	"
Back Basin and Docks	44,912	"
Dredged Channels	67,957	"
Middle Branch—(Spring Gardens)	46,787	"
	538,478	

This removal was from an area equal to 2,300,000 square feet—about 53 acres. The general average depth of cutting was $6\frac{1}{4}$ feet. the result of this work may be briefly stated as follows:

The depth of 19 feet at low water has been extended, at the head of the Basin, up to the line of wharves along Light street, except for a short distance north of Camden street. The shoal known as the "Upper Middle Ground" has been entirely removed, so that the harbor has now for its whole width a depth of 19 feet as low down as Boyce's old wharf; thence a depth of 22 feet, to a line joining Brown's and Ober's wharves; and below that a cross-cut channel, nowhere

less than 800 feet wide and 24 feet deep. The channel on the east side of Fell's Point has been widened 30 feet, and is now about 200 feet wide. The Locust Point channel, above the Baltimore and Ohio piers Nos. 8 and 9, has been widened 40 feet, giving it now a width throughout of 400 feet. The channel on the east side of the lower harbor, by the Northern Central Railway elevators, has been widened 40 feet, giving it now a width of 300 feet. In the Middle Branch (Spring Gardens) the deposits from Howard street sewer and Chatsworth run have been removed to a depth of 12 feet at low water, over an area of 120,600 square feet, at the foot of Eutaw street. The main channel has been re-dredged for a length of 1200 feet and a width of 30 feet; and the side channel, to the gas house, has been re-dredged for a length of 800 feet and a width of 30 feet.

During the past season Colonel Craighill, the United States Engineer, has rendered a great service to our commerce by the removal of the larger portion of the hard shoal obstructing the mouth of the harbor near Fort McHenry.

Under the supervision of the Harbor Board, an area of 31,680 feet of the centre pier at the Back Basin has been graded and paved, and 7,200 square feet of the lower end of the pier covered with asphalt. This lower end now serves as a place of deposit for street sweepings, &c. It has also repaired and rebuilt bulkheads in the Back Basin, at Long Dock, and on the wharf at the foot of Commerce street, and has nearly

completed about 250 feet of stone bulkhead at the Back Basin, to replace what was heretofore of wood.

The ice-boat F. C. Latrobe has been maintained in perfect condition, ready for service at any time. During the past summer this boat was used with permission of the City Council, by the Free Excursion Society.

In connection with the general improvement of the harbor of Baltimore, owing to the demand for deeper and wider channels, the United States Government are now considering the propriety of making the ship channels leading to this port 27 feet deep at mean low water. To render this great improvement of any benefit to the city, it will be necessary to increase the depth of the harbor proportionately; in other words, the depth of the channels of approach should be maintained over the whole area of our lower harbor. This will require a large expenditure, but in no better improvement, in my judgment, could money be more wisely invested by this city.

The estimated requirements for dredging the harbor during the next season are eighty thousand dollars—ten thousand dollars less than was appropriated in 1880. I hope your Honorable Body will grant to the Harbor Board the full amount of its estimate.

CITY LIBRARY.

As stated in my last message, this has become a most important department of the City Government. Under its supervision, the stationery is supplied to all the departments; a great improvement over the old method of allowing each department to provide its own sup-

plies. All the city documents are now carefully preserved and classified, facilitating searches for old city papers. A regular system of exchanges of city documents is maintained with the principal cities in this country and in Europe, resulting in the gradual acquirement of a very valuable municipal library. During the past year the Librarian, with his assistant, has properly arranged and classified all the papers connected with the administration of Baltimore, from 1800 to 1879. The annual messages of all the Mayors, between the same periods, have been collected and bound, affording in themselves a most interesting account of the growth and progress of the city. The cost of stationery for the city departments during the year 1880, was $5,763.55; in 1879, it was $6,081.37, and in 1878, the cost was $7,921.94, thus showing a gradual reduction due to the improvement in the management of this department.

WESTERN MARYLAND RAILROAD.

The large interest held by the city of Baltimore in the Western Maryland Railroad makes the following statement interesting:

Statement of the Indebtedness of the Western Maryland Railroad Company to the Mayor and City Council of Baltimore, December 31st, 1880:

First mortgage endorsement		$200,000 00
Second mortgage endorsement	$300,000 00	
Interest thereon to January 1, 1881	216,000 00	
		516,000 00
Amount carried forward		$716,000 00

Amount brought forward...		$716,000 00
Second Preferred Mortgage Bonds held by Commissioners of Finance.....		178,500 00
Third mortgage endorsement.....	$875,000 00	
Interest thereon to January 1, 1881.....	525,000 00	
		1,400,000 00
Fourth mortgage, to secure loan of city stock.....	$1,000,000 00	
Interest thereon to January 1, 1881.....	510,000 00	
		1,510,000 00
Funding certificate, being amount of matured coupons of First Mortgage Guaranteed Bonds and Second Preferred Mortgage Bonds, funded as per Ordinance No. 22 of 1879.		225,930 00
Coupons from unendorsed bonds of first mortgage, held by Commissioners of Finance.....	$71,742 00	
Interest due thereon to January 1, 1881.....	22,161 97	
		93,903 97
Total.....		$4,124,333 97
Less value of Western Maryland Railroad Sinking Fund.....		194,366 09
		$3,929,967 88

Under the provisions of Ordinance No. 22, approved April 3d, 1879, the Western Maryland Railroad has, since July 1st, 1879, paid interest upon the Second Preferred Mortgage Bonds held by the Commissioners of Finance, amounting to $178,500, and will, after July 1st, 1881, pay interest also upon the Funding Certificate, being the amount of matured coupons of First Mortgage Guaranteed Bonds and Second Preferred Mortgage Bonds, funded under the provisions of the aforesaid ordinance. In accordance with the requirements of Ordinance No. 33, approved April 17th, 1879, the receipts from this source are added to the general Sinking Funds.

The report of the Western Maryland Railroad Company shows it to be in a prosperous condition, the road is now doing a large and constantly increasing business in freight and passengers. Its recent connections with the Baltimore and Hanover Railroad, and with the Baltimore and Cumberland Valley Railroad, have added largely to its traffic. The extension from Waynesboro via Chambersburg to Shippensburg, in Cumberland county, Pennsylvania, is now being rapidly pushed forward, and, when completed, will be a valuable feeder to the Western Maryland. The road is in good order, some $60,000 having been expended during the past year in steel rails. The price of its securities have greatly advanced in the market, and I have no doubt that the city will eventually realize a return from a large portion of its investments in this corporation.

NEW PAVING.

By an ordinance approved October 8, 1880, the Mayor and City Council were authorized to issue five hundred thousand dollars of bonds, bearing four per cent. interest, "the proceeds of which shall be applied to the purpose of defraying the city's portion of the cost or expense of laying improved and more durable pavements, of such character, and in such of the paved streets of this city, as the Mayor and City Council shall, from time to time, direct." Baltimore has long suffered from bad pavements; the antiquated and elsewhere almost obsolete cobble-stones are here a characteristic evidence of our reverence for relics of the past. The principal reason for laying cobble-stones in a new street is, the indisposition of the adjacent property-owners, who are assessed for its paving, to incur the expense of an improved pavement. For the public good, this policy should be changed, and I therefore recommend the passage of an ordinance requiring all new streets, when opened, to be paved with Belgian blocks, or some other kind of improved pavement. It now becomes the duty of the Council to select the streets and kind of pavement in and for which the proceeds of this loan are to be expended. The entire work should be done during the coming spring and summer. The amount is not large, and in selecting the streets to be repaved care should be taken to improve those most used by the public. There should be one well paved central street, of even grade, running north and south. Calvert street might be selected. Light street, from Baltimore to Pratt, and Gay street, from Baltimore street to No. 6 Engine House, are both much traveled,

and greatly in want of an improved pavement. Hanover and Sharp streets, from Baltimore to Pratt, have lately been much improved by large and costly warehouses, erected by private enterprise; this gives them some claim for a better pavement. North Charles street, from Baltimore to Lexington, and Lexington, between Charles and Liberty, are daily crowded with vehicles, and would be widened and greatly improved by Belgian blocks. Monument Square should be repaved and regraded. The grade from the corner of Lexington street to the Battle monument should be lowered; this can be done without interfering with private property, and, in connection with a Belgian block pavement, as a substitute for the present cobblestones, would be a great improvement, especially as this street will be the western boundary of the new Government Post-Office building. I have thus confined my suggestions for the expenditure of this money to the central and business portions of the city. In my judgment they should be given the preference; after that, if the money is sufficient, it is most desirable that there should be at least one well paved avenue for driving, leading to Druid Hill Park. The paving ordinance, as will be seen, leaves to your Honorable body the selection of the character of pavement to be used. Experience in this city has proved that the Belgian block pavement is best adapted for heavily traveled business streets; for light travel, some more noiseless, and at the same time durable pavement should be selected.

AN UNPAID COMMISSION FOR THE CITY COMMISSIONER'S DEPARTMENT.

In my last annual message I recommended that an unpaid commission, similar to the Water Board and Harbor Board, be established, for the purpose of taking charge of the City Commissioner's Department. With that object, I had an ordinance prepared and submitted to the Council. I invite your consideration of this suggestion. As I then said, the Harbor Board, Water Board, Board of Finance Commissioners, Jail Board, Board of Trustees of the Poor, Park Board, and Fire Commissioners, have all given satisfaction, by the admirable and economical manner in which they have discharged their duties. The business of the City Commissioner's department is of especial importance to the improvement of the city. The establishment of proper grades, paving of streets, construction of sewers, and improvement of Jones Falls, are matters involving the health and comfort of the people, and materially affecting the value of their property. The business of this department has largely increased, and the expenditures require annually large appropriations. Under these circumstances, I think the public interests would be advanced by the establishment of a board of six commissioners, with the Mayor as chairman *ex officio,* which should meet monthly, as does the Water Board, and to which should be submitted for consideration, all the business of what is now known as the City Commissioner's department. The executive business of the office would still be carried out, as now, by a City Engineer and his assistants, who should be appointed by the Board, and be subject to its control and direc-

tion, as are the officers of the Water Board. Under the direction and supervision of this Board, if established, could be made a topographical survey and map of the city. This is essential to the adoption of a proper system of sewerage, or of grades, in the opening of new streets, or the repaving and regrading of old ones. Such a survey and map could be made at a comparatively small expense with the material now in the City Commissioner's department; and whether or not my suggestion of a change in the manner of conducting this department is adopted, I hope that provision will be made for the preparation of a topographical survey and map of the city. I suggest the passage of a resolution authorizing the Mayor to inquire the cost of making such a survey and map, and report the same to the Council.

LICENSES ON PRIVATE VEHICLES.

By an ordinance approved May 11th, 1880, every owner of a private vehicle was required to pay a license annually for the privilege of using the streets of the city. This was only requiring the owner of a pleasure carriage to do what has long been exacted from those owning and using furniture carriages, carts, drays and hackney coaches; it being the presumption that the owners of the former could bear taxation equally with the latter. The law further required that each carriage should have a number painted upon a tin plate, and placed on the "hindermost part of the hind axle." This was an objectionable feature, difficult to comply with—many hind axles of fine carriages being made

of iron, and, where not so constructed, being disfigured by the tin plate. The amount collected under this ordinance during the past year was $10,702.50. The smallness of this amount is accounted for by the fact that a large number of carriage owners have failed to comply with the provisions of the ordinance, owing chiefly to the objectionable feature before alluded to.

I therefore suggest that this law be modified, by requiring only the license to be taken out; the license to be kept in a conspicuous place in the stable or carriage-house where the vehicle is housed, subject to inspection, when called for, at any time by a city officer.

If this law is fully complied with, the revenue derived therefrom should be sufficient to meet the interest on the $500,000 of bonds to be issued for the purpose of repaving the streets. In order to properly enforce the ordinance, if modified as suggested, I recommend that the Comptroller be authorized to appoint a suitable person, whose business it shall be to see that these licenses, and also the licenses required for balls and exhibitions, bagatelle tables, &c., be taken out.

While I am opposed generally to the creation of any new offices, after consultation with the Comptroller, I am sure that the proper enforcement of the license law by this means will result in a large increase of revenue.

SEWERAGE.

The city of Baltimore requires a system of sewerage. The continuance of the plan of digging the cess-pools now honeycombing the surface of the ground upon

which the city is built—there being on an average about one to each of its eighty thousand houses—must be discontinued, if the health of the community is to be considered. To substitute a general system of sewerage is merely a question of time and expense. The modern plan of sewering cities, now being adopted in Memphis, New Orleans, and elsewhere, is that of using comparatively small pipes, not intended to carry off the storm water, which, in a great measure, is left to flow over the surface of the streets. This, in my judgment, is what we require here. The cost will be large, and should the city undertake the work, it can only be done by an enabling Act of the Legislature, authorizing the creation of a loan for the purpose. I recommend that the Mayor be authorized to employ the engineers of the Water Board and Harbor Board, and one of the engineers connected with the City Commissioner's office, who shall examine the subject and submit a report thereon to the City Council. A moderate appropriation would be well expended in this most important and necessary work. Such a report would enable the City Council to act intelligently in the matter.

REPORT OF THE COMMITTEE APPOINTED TO INQUIRE INTO THE PUBLIC SCHOOL SYSTEM.

By a resolution approved October 13, 1877, the Mayor was authorized to appoint a commission, consisting of five gentlemen, who should inquire whether the present public school system in Baltimore presents any defects, and if so, how they can be remedied. The Commission was appointed, and consisted of the following well-

known gentlemen : Judge George William Brown, Chairman, and Messrs. Frederick Raine, John T. Morris, E. G. Hipsley and Richard M. Venable. The result of their deliberations was a report presented to the Mayor on February 16, 1880, and submitted by him to the City Council.

I do not think that this important paper ever received from the Council the consideration to which it was properly entitled. The thoroughness of the investigation of this subject by gentlemen much interested in the cause of public education, and with great experience in the public school system of Baltimore, is shown in every page of the report.

The chief recommendation of the committee is a change in the mode of appointing the members of the Board of School Commissioners, by substituting a Board of gentlemen, to be appointed from the city at large by the Mayor, and confirmed by the Council, to serve, as at present, without pay, for six years, the term of one-third of the members to expire every alternate year.

The Committee recommend that this Board shall consist of nine members; but whether or not this be the accepted number, the present manner of selecting the Board, by election in a joint convention of the two Branches of the City Council, is decidedly condemned. Under this system "the member of the School Board from each ward is selected by the member of the First Branch of the City Council from that ward—a nomination by such member being in almost all cases equivalent to an election."

As said by the Committee—

"Several consequences follow from this:

"(1.) The responsibility for the appointment ceases to rest where the law places it—on the joint convention—and is, in reality, destroyed; for the member making a bad appointment can escape responsibility for it by pointing to the letter of the law; and the joint convention can acquit itself by pointing to the method of appointment adopted in practice.

"(2.) A public trust of the highest importance, vested by law in a body of men, is by them partitioned out amongst the individual members as a private patronage."

"The position of School Commissioner is one which requires a peculiar fitness. It is not enough that the man who holds it should be what is called a man of common sense; he should be a man of training, as well as of common sense; his antecedents, or his study, should have made him familiar with the existing methods of education, the multiform experiments now being tried in the art of educating, and with the co-temporaneous discussion of the subject."

I endorse the views of the Committee on this subject, and think that a change in the manner of appointing the members of the School Board as therein suggested, would be conducive to the better working of the system.

There are many other matters referred to in this report which are entitled to the consideration of your Honorable Body. The importance of the department

of public education in advancing the welfare and prosperity of the community, and its firm place in the hearts of our people, requires that all suggestions calculated to improve its working, and render more effective its great mission of furnishing free education to all classes, without regard to race or color, should be well weighed and considered, without prejudice of any kind.

SESQUI-CENTENNIAL.

In October last was celebrated the one hundred and fiftieth anniversary of the founding of the city of Baltimore. The enthusiasm with which all classes participated, and the good order maintained, notwithstanding the great crowds of citizens and strangers thronging the streets during the eight days of the festival, was most creditable to our people. The decorations of public and private buildings; the illuminations at night, and the grand processions on each day, gave evidence that in one hundred and fifty years the city had grown from a small village, on the banks of the Patapsco, to a great and flourishing centre of education, trade and commerce. It was a public demonstration worthy of the city, and a proper indication of its wealth, power and prosperity. The thanks of the people are due to the members of the German Committee, the Citizens' Committee, the Finance Committee, the Committee of the City Council and the Committees on Press, Decoration, Transportation and Public Comfort, whose energy and activity aided so much in the success of the fete, and also to those of our citizens who liberally contributed to its cost. The celebration

of the Sesqui-Centennial was an era in the history of Baltimore. It is proper that some lasting record should be made of this event. With this view, a committee was appointed for the purpose of preparing a suitable memorial volume, to be placed in the municipal library, and distributed among those who contributed to the celebration, which should record the events connected with a festival so creditable and honorable to Baltimore. A balance of about fifteen hundred dollars, left in the hands of the Citizens' Committee, from funds contributed by the people, is held subject to the order of the Memorial Committee. This sum is not sufficient to properly publish and illustrate the book, and the committee will apply to the Council for a small appropriation to be used in this connection. I think the application should be favorably considered. The expense will not be large, and the history of an event so honorable to the city should be preserved for future generations.

The Municipal Committee, of which Mr. F. P. Stevens was chairman, and Col. Thomas J. Scharf, secretary, has made a full and itemized report of its receipts and expenditures, which is herewith transmitted to the Council. An itemized statement of the expenditures of the amount appropriated by the City Council will be found in the books of the Comptroller's office.

BALTIMORE'S REQUIREMENTS FROM CONGRESS.

It is earnestly hoped that our representatives in Congress will exert themselves in obtaining a favorable consideration for the several matters now before that body, in which the city is much interested.

First. The appropriation for the new post-office building. The lot has already been purchased by the Government; and the Secretary of the Treasury, in his report recommends an appropriation of $300,000 for the purpose of commencing the work. Baltimore has so long waited for the erection of a United States building commensurate with the wealth and dignity of the city, that it is time our hopes were realized by its commencement.

Second. The necessity of urging Congress to adopt the recommendations of Colonel Craighill for the necessary appropriation to widen the ship channel approaching the Harbor, and increase its depth to twenty-seven feet. The rapid increase in the commerce of the port, and its national importance as one of the principal points of shipment on the Atlantic coast, makes our appeal for further Government assistance in this respect most reasonable. I am sure the Representatives from the Western States will aid the members from Maryland in any efforts made in this connection. Baltimore is essentially the seaport of the great Western cities, to which its lines of railway brings tidewater navigation so much nearer than do those of New York, Philadelphia or Boston.

Third. To urge upon Congress the adoption of the recommendation of the Secretary of War—to provide for the proper fortification of the approach by water to Baltimore. A great and wealthy city of 400,000 inhabitants is left almost defenceless, and, in the event of a foreign complication, in a condition inviting an attack from any single iron-clad that might steam up

the Chesapeake. Fort McHenry is only useful to remind us of the days of 1814. Fort Carroll is antiquated and unfinished. In its present condition it serves only to obstruct the Harbor. There are no other fortifications on the Bay or river. While, therefore, Congress is appropriating money to strengthen the defences of other sea-coast cities, it is hoped that the recommendations of the War Department in regard to Baltimore will not be overlooked.

Fourth. To urge upon Congress the construction of the ship canal across the peninsula. The importance of this work, not only as a means of national defence in the event of war, but also of such great benefit to the city of Baltimore, and through it to the Western States and cities, has been most ably placed before Congress by Representative Kimmel, from this city. The figures and statistics embracing its cost and advantages are fully set forth in his speech in the House of Representatives, on May 20th, 1880, which I have now before me. I earnestly hope that the day is not far distant when we may see the work on this canal in progress.

I think it would be well for the Council to pass a resolution, commending all of these matters to the especial efforts of the members of Congress from Maryland; and at the same time to authorize the Mayor to appoint a committee, similar to that appointed a year since, in the matter of the Post-office, which, with a committee on the part of the City Council, shall hold itself in readiness to proceed to Washington, when necessary, to urge on Congress a favorable consideration.

SUGGESTIONS FOR THE ADVANCEMENT OF THE PROSPERITY OF BALTIMORE.

We are all interested in the advancement of the prosperity and increase in the population of Baltimore. How can this be materially aided? Nature has done much for the city. It has contributed a healthy climate, and a location on navigable tidewater in close proximity to the great coal fields, and nearer to the Western cities than any point on the Atlantic seaboard. Private enterprise has constructed through lines of double track railways to the West, and established here terminal facilities for the receipt and transhipment of merchandise from rail to shipboard, unequaled in the world. Municipal enterprise, assisted by liberal appropriations from the United States Government, has so deepened the channels to the port, that any vessel which can enter the harbor of New York can come up to the wharves of Baltimore. The result of this combination of natural advantages with human enterprise has already made Baltimore a great commercial city. What more does it want? Increased commerce and manufactures. The former requires an increased depth of water in the harbor. We have made it twenty-four feet; let us make it twenty-seven feet. A proper appeal to Congress for the necessary appropriation, which is so urgently recommended by Col. Craighill, the United States Engineer officer in charge of the work, will doubtless be successful. This, in connection with a continuance of the annual liberal appropriations by the City Council, to be expended by the Harbor Board in deepening and widening our upper channels, will, in a few years, accomplish the desired result.

But we want manufactures. They are the life-blood of a great city. Our sister cities are all offering premiums for their establishment; let us endeavor to outbid them. We must have a low rate of taxation. Manufactures will not go where taxes are excessive. This is to be accomplished in several ways: *First*—By an economical municipal government. It is for this reason that I earnestly urge upon your Honorable body to keep the taxes down. The city government should be managed on strictly business principles; undertake nothing we cannot afford; create no superfluous offices; make the levy early, and make no appropriations after the levy is made. *Second*—We can secure a reduction of the tax rate by an increase in the taxable basis; this is aided by whatever advances the prosperity of the city. All that is done for commerce to attract trade to the port; all done for manufactures, inducing them to come here with their plant and machinery and employ operatives, who must build houses and purchase supplies for their support; all done, through the judicious expenditure of only what we can afford, in the way of repaving our business streets and improving the outer portion of the city, thus encouraging the erection of buildings for warehouses and dwellings, which are added to the taxable basis, tends to accomplish this result.

It can further be materially assisted by a better system for the assessment of property. At present a large amount of the real estate in the city is most unequally assessed, while not more than one-fifth, if even one-tenth, of the personal property is subjected to any tax

whatever. An annual assessment of all property will do much to correct this difficulty. It is the plan adopted in other large cities ; and although the machinery for the purpose is expensive, the result here, as elsewhere, would certainly be a large increase in taxable basis, and a consequent reduction in the tax rate. This, however, requires legislative action. Next to a low rate of taxation, in order to encourage manufactures, they must have here the facilities and privileges enjoyed elsewhere. In Philadelphia, and Wilmington, Delaware, as well as in some other cities, the plant or machinery used for manufacturing purposes is exempted from taxation. We must do likewise. At the last session of the Legislature an Act was passed authorizing the Mayor and City Council to make the exemption. I have had the ordinance prepared to accomplish this purpose. The Committee on Manufactures, appointed by authority of the City Council, and which made the admirable report on the subject in 1877, urgently recommends it. The expense to the city, as will be found by your committee of Ways and Means when they examine the figures which I have had taken from the books of the Appeal Tax Court, will be very small. I therefore earnestly hope that this ordinance will be among the first measures favorably considered and passed upon by your Honorable body. Next to the exemption from taxation of the plant or machinery is required a very low rate for water used for manufacturing purposes. While it is desirable that the revenues from the Water Board should meet the expenses of that department, and pay the interest on the bonds issued for the construction of the work, it is just as

desirable that no obstacle should be placed in the way of the establishment of manufactures in Baltimore by reason of the high price of water. It is well known that many manufacturing establishments here have found it more economical to incur the expense of Artesian wells, in preference to using the city water. With householders, many purposes for which water is used are luxuries; with manufactures an ample supply is a necessity. If we are to have, with the Gunpowder, a superabundant supply, why not sell it at a very low rate for manufacturing purposes, when so much good will come from it? Better almost give it, than let it run to waste over the dam at Lock Raven.

The water rates for manufacturing purposes for some years past have been as follows:

In 1869, the rate was 20 cents per 1000 gallons.

From January 1, 1870, to July 1, 1880, the rate was 15 cents per 1000 gallons.

From July 1, 1880, to January 1, 1881, the rate was 12 cents per 1000 gallons.

After January 1, 1881, the rate is 8 cents per 1000 gallons.

From these rates is deducted 10 per cent., for prompt payment.

The revenues from the Water Board for water rents since 1876 have been as follows:

1876,	the revenues	was	.....	$506,824 78
1877,	"	"	for 14 mths..	521,160 49
1878,	"	"	....	487,251 10
1879,	"	"	....	518,890 78
1880,	"	"	.....	579,326 36

The revenues received from meters, which are principally used for manufacturing or mechanical purposes, was as follows:

1876	$57,181 55
1877	60,942 49
1878	60,412 68
1879	64,230 86
1880	72,483 52

It will thus be seen, from the latter statement, that there has been a gradual increase in the revenue derived from water used for these purposes. Now, while it is a large reduction from 12 cents per 1000 gallons to 8 cents, I think it for the interest of the city, in its efforts to encourage manufactures, to even make a still further reduction to 5 or 6 cents per 1000 gallons. If a reduction to 6 cents, or one-fourth of the present rate of 8 cents, would be followed by a corresponding falling off of revenue, it would result in a loss, provided the receipts for 1881 were only $55,000, which I think can be fairly calculated upon, of about $14,000. This amount, if it was necessary to provide for it by additional taxation, would be about one-half of a cent in the levy—a very small sum for the people to contribute for so worthy an object.

There are many suggested improvements, which would, if carried out, add much to the facilities for transacting the general business, and undoubtedly be of great benefit to the city. In fact, they would be good public investments, which, I have no doubt, would soon repay the outlay required. The widening of Fayette street, and lowering its grade from Calvert to

Liberty streets; widening North street; widening that narrow portion of Baltimore street east of the bridge, and the erection of a new Court House—all of these are improvements which must come in time, but the question is, can we afford to make them now? The widening of Fayette street alone, which is so desirable, would cost, at the lowest estimate, about $600,000, or nearly 25 cents in the tax levy. This is more than the people would willingly bear. In my judgment, therefore, we had better wait awhile. What we can expend now, let it be in the way of encouragement of commerce and manufactures, and in moderate expenditures for new streets, requiring but a small outlay. In this way we can so increase the taxable basis, by the encouragement of private enterprise, that in a few years we will be able to undertake these future necessities. Recollect especially that a low rate of taxation is the best inducement for the exercise of that individual expenditure in building, and embarking in manufacturing industries, which, by adding to the taxable basis, enables the city to increase its expenditures for public improvements, without increasing its tax rate.

BUILDING LAWS.

Baltimore has long felt the want of a proper law controlling the erection of buildings. Warehouses and dwelling houses are constantly being built on such inferior foundations, with such thin walls and defective flues, as to be almost unfit for occupation, and in the event of fire, dangerous to the firemen who enter them to save life and property. There are blocks of build-

ings in this city where it would be impossible to confine a fire to the house in which it originated. The plumbing in many buildings is of the most inferior description, and frequently the cause of disease to the occupants. There is a law requiring the removal of dangerous walls, but no means are provided for its enforcement. With a view of remedying these defects in municipal legislation, the Council, at its last session, authorized the appointment by the Mayor of a commission to prepare and report a proper building law. The following gentlemen were appointed: Messrs. John H. B. Latrobe, George A. Frederick, John Murdoch, William T. Wilson and Samuel H. Adams. The members of this commission have devoted much time and thought to the subject, and the result of their deliberations is the draft of a law which will be presented to your Honorable Body. This is an important matter, and I ask for the report a careful consideration. The commission is entitled to the thanks of the Council for its labor in this connection.

ASSESSMENT OF PROPERTY.

In another portion of this message I have alluded to the defective condition of the assessment laws. The general assessment of property under the Act of 1876 was most unsatisfactory in this city, and unequal in its effect upon property. The Act of 1876, chapter 178, proposed to remedy its defects by giving to the Appeal Tax Court the power to revise assessments. Some idea may be formed of the dissatisfaction with the assessment and the labor of a review by the fact that the re-

port of the Court in 1878 stated that over 10,000 applications had been made for abatements. The result of the failure of this law to produce a proper valuation of property in this city is shown by the fact that the basis of taxation in 1880 is $241,980,638, of which $183,051,396 is real, and only $58,929,242 is personal property. In fact, a reference to the City Collector's report will show that the basis seems to decline, instead of increasing with the growing wealth and prosperity of the city. While an assessment at intervals of from 8 to 10 years is sufficient for the counties, where the values of real estate are more fixed, in a city like Baltimore, where the value of real estate is constantly varying, and the amount of personal property fluctuating in value and frequently changing ownership, it has been found elsewhere that an annual assessment is necessary to insure fairness to the city and to the taxpayers. An equitable assessment, with an equal distribution of the burdens of taxation, would materially advance the basis and correspondingly reduce the levy. In all large cities, therefore, an ual assessment of property is provided for.

The present law for the collection of taxes also requires revision, being based partly upon general and local statutes, and partly upon city ordinances, all enacted at different periods, many of them conflicting in their provisions and occasioning frequent embarrassment to the officers of the Tax Department.

With a view, therefore, of thoroughly investigating this whole subject, correcting the defects in our municipal tax laws, and providing for a change in the mode

of assessment of property, I recommend that authority be given to the Mayor to appoint a Commission of seven gentlemen, to serve without pay, of which the Mayor, the City Counsellor and City Solicitor shall be members ex-officio, for the purpose of suggesting a more efficient and simple system for the assessment of property and the collection of taxes in Baltimore. The said Commission to report to the City Council before January 1st, 1882, in order that the report, if accepted, may be submitted to the next General Assembly of Maryland. If this recommendation is adopted, it will be necessary to provide by an appropriation for the cost of clerical service required by the Commission.

CONCLUSION.

I strongly urge upon your Honorable Body the necessity for maintaining a low tax rate. There is no good reason why the levy of 1880 should be increased. It will meet the necessary expenses of the City Government, and provide for such improvements as we can, at this time, afford to make. I respectfully suggest that the tax levy be made as early as practicable.

The requirement in the City Charter, that the Mayor shall annually report the general state of the city, and furnish an accurate statement of the money received and expended, is the apology offered for the length of this message.

I have the honor to be,

With great respect,

Your obedient servant,

FERDINAND C. LATROBE,

Mayor.

ANNUAL REPORTS

OF THE

REGISTER OF THE CITY

AND OF THE

Commissioners of Finance

TO THE

Members of the First and Second Branches

OF THE

CITY COUNCIL,

FOR THE

FISCAL YEAR ENDING DECEMBER 31, 1880.

REPORT OF

JOHN A. ROBB,

REGISTER OF THE CITY.

Register's Report.

OFFICE OF THE REGISTER OF THE CITY,

Baltimore, January 5th, 1881.

To the Honorable the Members of the
First and Second Branches of the City Council:

GENTLEMEN:

In obedience to the duty required of him by section 22 of Article XI of the Baltimore City Code, the Register herewith presents "his account of all moneys received and expended by him during the past year;" a "statement of the estimated receipts and payments required for the current year;" also, tables showing the funded and guaranteed debt of the city as of December 31st, 1880; the productive and interest bearing securities of the city; the unproductive securities; the condition of the sinking funds under his charge for the redemption of the five million loan to the Baltimore and Ohio Railroad Company, and for the redemption of the loan to the Western Maryland Railroad Company, and bonds of the same, guaranteed by the City of Baltimore.

The total receipts for the year amount to the sum of	$7,397,223 01
To which add the cash balance from the last year	328,710 05
Making the total amount to be accounted for	$7,725,933 06
The total disbursements amount to	7,403,415 44
Leaving a cash balance in Bank December 31st, 1880, of	$ 322,517 62

The aggregate monthly receipts and disbursements are shown by table marked E, herewith, and the receipts and disbursements are presented in table marked D, in detail, but for more convenient reference and for the purpose of exhibiting the actual costs of the City Government, the following statement of receipts and expenditures have been condensed from table D:

RECEIPTS—INCOME PROPER.

From City Collector, levy of 1880	$2,327,583 17	
" City Collector, levies of 1879 and previous years	1,338,428 44	
		$3,666,011 61
" public schools' tuition fees, and from J. F. Plummer		46,292 49
" markets		50,647 95
" wharfage		25,989 03
Amount carried forward		$3,788,941 08

Amount brought forward	$3,788,941	08
From dividend from Baltimore and Ohio Railroad Company Stock	292,500	00
" general licenses and carriage licenses	49,430	44
" sundry regular sources	65,677	49
Actual income	$4,196,549	01

RECEIPTS—NOT INCOME PROPER.

From Baltimore and Ohio Railroad Company, to pay interest on five million loan	$300,000	00
" State of Maryland, Public School tax	147,303	99
" City Passenger Railway Companies for Park Sinking Fund	15,774	30
" City Passenger Railway Companies for Park Board, and from parks	107,284	93
" sales of Jones' Falls Stock and materials	711,784	90
" sales of Stock for Improvement of Harford Run	40,000	00
" tax sales	13,629	43
" Water Board	632,377	93
" sales of Stock for Permanent Water Supply	415,663	79
" temporary loans	350,000	00
" estate of Sarah Ann Fowler	3,584	87
" conscience fund	1,419	87
Amount carried forward	$6,935,373	02

Amount brought forward	$6,935,373 02
From sales of property for Commissioners of Finance	204,372 06
" opening and widening streets, sales by Commissioners	8,413 98
" opening and widening streets, from City Collector	180,012 37
" paving streets, from City Collector.	69,046 58
Total receipts	$7,397,223 01
Cash balance December 31, 1879	328,710 05
	$7,725,933 06

DISBURSEMENTS—EXPENSES OF THE CITY.

Interest on public debt	$1,031,731 92
Expenses of Courts, Jail, registration of voters, &c	239,660 14
Public schools, salaries and expenses	469,848 65
" new buildings	21,835 75
City poor	157,144 71
Sinking funds	5,736 16
Harbor Board	106,112 81
State Police	583,382 45
Health Department	245,430 81
Fire Department	188,469 30
Inspector of Buildings, repairs of city property, &c	39,799 70
City Commissioner's Department	195,109 78
City Council expenses	54,074 61
Salaries	66,000 00
Amount carried forward	$3,404,336 79

Amount brought forward	$3,404,336 79
Parks and squares other than Patterson and Druid Hill Parks	59,962 66
Discount on taxes and interest on loans	107,449 27
Lamplighters	43,438 85
City Collector, salaries and expenses of office	43,982 25
Department of Lamps, gas and lamps	145,737 39
General expenditures, being the aggregate of sundry items	142,892 06
	$3,947,799 27

DISBURSEMENTS—NOT EXPENSES PROPER.

Interest on five million loan for Baltimore and Ohio Railroad Company	$300,000 00
Public schools, tax from State of Maryland	147,303 99
Park Sinking Fund from Passenger Railway Companies	15,774 30
Park Board Fund from Passenger Railway Companies	102,677 14
Improvement of Jones' Falls	505,952 72
" Harford Run	39,829 38
Tax sales	10,774 84
Water Board	929,183 78
Permanent Water Supply from Gunpowder River	426,241 12
Coupons paid for Western Maryland Railroad Company	600 00
Temporary loans	400,000 00
Amount carried forward	$6,826,136 54

Amount brought forward.....	$6,826,136 54
Estate of Sarah Ann Fowler.....	1,715 60
Sales of city property, to Commissioners of Finance.....	199,465 22
Widening, opening and paving streets....	376,098 08
Total disbursements.....	$7,403,415 44
Cash balance December 31, 1880.....	322,517 62
	$7,725,933 06

ESTIMATES FOR THE CURRENT YEAR.

The estimate of expenses for the current fiscal year as detailed in statement marked B, are.....	$5,376,832 73
And the receipts as per statement C.....	2,882,833 00
Amount to be provided for by taxation.....	$2,493,999 73

Being $167,234.82 less than the estimates of last year, (although some of the departments have been compelled to ask for increased appropriations), a gratifying result, as last year's estimates were $424,233.60 less than its previous year, and the existing claims or floating debt show a further reduction of $140,592.91, it being now but $155,777.37, as against $296,370.28 at the commencement of the year; and this result is arrived at notwithstanding the basis of taxation has been reduced through various causes quite or nearly twelve millions dollars from the amount on which the Committee of Ways and Means predicated the levy—the result of the policy of "no appropriations after the adoption of the annual levy," and the enforcement of the Ordi-

nance which restricts the respective departments to the amount of their appropriations.

FUNDED AND GUARANTEED DEBT.

The funded and guaranteed debt, as of December 31, 1880, is $36,092,298.06,—an increase during the year of $1,068,500, caused by the issue, by order of the Commissioners of Finance, of $40,000 four per cent. Harford Run Improvement Stock, authorized by Ordinanee No. 11, approved October 11, 1879, and ratified by the legal voters of the city at an election held November 4, 1879; the issue of $378,800 of Water 1894 five per cent. stock for the introduction of water from the Gunpowder River, completing the issue of the total amount authorized by Ordinance No. 5 of 1874, and the issue of $650,000 of 1900 five per cent. stock for the improvement of Jones' Falls. The premiums realized on these loans amounted to $97,598.07.

The funded debt was decreased three hundred dollars by the payment of that amount of overdue Water six per cent. stock of 1875. There is still of this stock (Water, 1875), $6,346.33 remaining unpaid, the money for the same being on deposit in the Farmers' and Planters' National Bank, in a separate account.

The funded and guaranteed debt being..	$36,092,298 06
And the productive assets being.....	30,223,899 36
The net debt is.....	$5,868,398 70
Net debt, Dec. 31, 1879.....	6,924,762 04

The amount of funded and guaranteed debt, the interest on which is provided for by taxation, is.....$13,162,653 48
The amount Dec. 31, 1879, was.....13,119,953 48

FIVE MILLION LOAN SINKING FUND.

The value of the sinking fund for the redemption of the five million loan to the Baltimore and Ohio Railroad Company, due in 1890, is $2,285,707.55, an increase since last report of $113,228.12.

WESTERN MARYLAND RAILROAD SINKING FUND.

The sinking fund for the redemption of the bonds of the Western Maryland Railroad Company, guaranteed by the city, has increased $9,864.50. The present value of this fund is $194,366.09.

I respectfully refer you to the report of the Commissioners of Finance, for the condition of the various sinking funds belonging to the city, and also to the accompanying tables:

Table A is a statement of the public debt of the city.

Table B is an estimate of requirements for the current fiscal year.

Table C is an estimate of receipts for the current fiscal year.

Table D is a detailed statement of the receipts and disbursements, and showing the appropriations for the various accounts.

Table E shows the aggregate monthly receipts and disbursements.

Table F shows the condition of the five million loan sinking fund.

Table G shows the condition of the Western Maryland Railroad sinking fund.

Respectfully submitted,

JOHN A. ROBB,

Register of the City.

STATEMENT A.

Statement of Funded Debt, December 31, 1880.

Loan.	Rate.	When Payable.	Amount.
Court House....	5 per cent.	At pleasure after the year 1860	$ 85,900 00
Consolidated....	5 "	" " " 1885	943,161 54
"	6 "	" " July 1, 1890	7,306,546 22
Public Park.....	6 "	" " Sept. 1, 1890	555,566 25
Exempt.....	6 "	" " Sept. 1, 1893	410,353 87
Water....	6 "	" " July 1, 1894	263,000 00
"	5 "	" " " 1894	3,737,000 00
Funding	6 "	" " " 1900	800,000 00
"	5 "	" " " 1916	1,000,000 00
Water.....	5 "	" " " 1916	5,000,000 00
Harford Run Improvement ...	4 "	At pleasure after Jan. 1, 1920	40,000 00
City Hall.....	6 "	July 1, 1884.....	1,000,000 00
One Million.....	6 "	January 1, 1886.....	1,000,000 00
Valley Railroad.	6 "	October 31, 1886.....	1,015,300 00
Five Million....	6 "	January 1, 1890.....	5,000,000 00
Consolidated....	6 "	September 1, 1893	2,211,068 05
Park Improvem't	6 "	January 1, 1895.....	185,723 80
City Hall.....	6 "	April 15, 1900.	1,000,000 00
Jones' Falls.....	6 "	" 9, 1900.	800,000 00
"	5 "	" 9, 1900.....	739,600 00
W. Md. Railroad.	6 "	January 1, 1902	1,000,000 00
City Hall.....	6 "	March 7, 1902.....	500,000 00
Water...	6 "	No interest allowed.....	6,346 33
Overdue Stock..	6 "	" "	732 00
		Total Funded Debt.....	$34,600,298 06

Guaranteed Debt.

Endorsement for W. Md. R. R. Co., 1st mtge.	$ 200,000 00	
" " " " 2d "	300,000 00	
" " " " 3d "	875,000 00	
" Union R. R. Co., 1st mtge..	117,000 00	
		1,492,000 00
Total Funded and Guaranteed Debt....		$36,092,298 06
From which deduct—		
Water Loans of 1894 and 1916, the interest on which is paid by revenue from water rents.	$9,000,000 00	
Park Loans, interest paid by City Passenger Railway Companies.....	555,566 25	
Cash in bank in reserve for the redemption of Water stock of 1875.....	6,346 33	
		9,561,912 58
Amount carried forward.....		$26,530,385 48

Amount brought forward.....		$26,530,385 48
And the following productive and interest-bearing assets:		
Mortgage on Baltimore and Ohio R. R. Co...	$5,000,000 00	
" Union R. R. Co.	117,000 00	
" West. Md. R. R. Co. (First).....	200,000 00	
32,500 shares of Baltimore and Ohio Railroad Company Stock, at $180.....	5,850,000 00	
Value of Sinking Funds	7,859,757 78	
550 shares Baltimore and Reistertown Turnpike Company Stock, valued at.....	2,200 00	
625 shares Baltimore and Yorktown Turnpike Company Stock, valued at.....	3,125 00	
120 shares Baltimore and Havre de Grace Turnpike Company Stock, valued at.....	3,000 00	
137 shares Baltimore and Frederick Turnpike Company Stock, valued at.....	206 00	
Market houses, producing a yearly rental of..... $45,000 00		
Improved wharf property, producing a yearly rental of..... 45,000 00		
Other real estate, producing a yearly rental of..... .... 7,601 88		
	$97,601 88	
Capitalized at 6 per cent.....	1,626,698 00	
		20,661,986 78
		$5,868,398 70
The following are the unproductive assets of the city:		
Second Mortgage on Western Maryland Railroad Company.....	$300,000 00	
Interest thereon to January 1, 1881.....	216,000 00	
Third Mortgage on Western Maryland Railroad Company.....	875,000 00	
Interest thereon to January 1, 1881.....	525,000 00	
Fourth Mortgage on Western Maryland Railroad Company.....	1,000,000 00	
Interest thereon to January 1, 1881.....	510,000 00	
10,000 shares of the Valley Railroad Company of Virginia Stock, par $100.....	1,000,000 00	
4,000 shares of the Western Maryland Railroad Company Stock, par $50.00..	200,000 00	
7,600 shares of the Baltimore and Susquehanna Tidewater Canal Company, par $50.	380,000 00	
714 shares of the Baltimore and Hall Springs Railway Company Stock, par $20.00.....	14,280 00	
Besides other property, such as—		
Court Houses, Record Office, City Hall, Jail, Police Stations, Fire Engine Houses and Apparatus, School Houses, Almshouse, Ice Boats, City Yard, Marine Hospital Grounds, Public Parks, &c., valued at.....	10,000,000 00	
		$15,030,280 00

APPENDIX TO STATEMENT A.

From the total Funded and Guaranteed Debt		$36,092,298 06
Deduct the following:		
Overdue Water Stock, no interest allowed..	$6,246 33	
Overdue Stock, no interest allowed.....	732 00	
And the following, the interest being provided for:		
By the Baltimore and Ohio R. R. Co. on.....	5,000,000 00	
" dividend on Baltimore and Ohio Railroad Stock, being the interest on..	4,875,000 00	
" West. Md. R. R. Co., 1st mortgage on.	200,000 00	
" City Passenger Railway Companies on.....	555,566 25	
" Water Board, from rents, on.....	9,000,000 00	
" Union Railway Company on	117,000 00	
" Commissioners of Finance, for interest on the One Million Loan....	1,000,000 00	
" Western Maryland Railroad Loan...	1,000,000 00	
And the Western Maryland Railroad Company Bonds guaranteed by the city.....	1,175,000 00	
		22,929,644 58
Leaving the amount on which interest is paid by taxation at.....		$13,162,653 48

viz:	$ 2,768,661 54	interest @ 5 per cent.
	40,000 00	" 4 "
	10,353,991 94	" 6 "
	$13,162,653 48	

STATEMENT B.

The existing claims against, and estimated expenses of the city, for the fiscal year ending December 31, 1881, against which receipts from uncollected taxes and other specified sources apply, are as follows:

EXISTING CLAIMS.

Temporary loans		$150,000 00	
Due Jones' Falls account		211,089 42	
" Park Board		7,024 89	
" Permanent Water Supply account		112,976 47	
" Improvement Harford Run account		170 62	
		$481,261 40	
Less cash in bank.	$322,517 62		
" due by Water Board	2,966 41		
		325,484 03	
			$155,777 37
Taxes in arrear	$1,840,556 59		

ESTIMATED REQUIREMENTS FOR THE FISCAL YEAR ENDING DECEMBER 31, 1881.

One year's interest on Harford Run, 1920, 4 Per Cent. Stock	$3,100 00	
One year's interest on Court House 5 Per Cent. Stock	4,295 00	
Amounts carried forward	$7,395 00	$155,777 37

STATEMENT B—Continued.

Amounts brought forward.. .	$7,395 00	$155,777 37
One year's interest on Consolidated 5 Per Cent. Stock.. .	47,158 07	
One year's interest on Water, 1894, 5 Per Cent. Stock.....	186,850 00	
One year's interest on Water, 1916, 5 Per Cent. Stock.....	250,000 00	
One year's interest on Funding, 1916, 5 Per Cent. Stock.	50,000 00	
One year's interest on Jones' Falls, 1900, 5 Per Cent. Stock.	38,230 00	
One year's interest on Water, 1894, 6 Per Cent. Stock.....	15,780 60	
One year's interest on Consolidated, 1890, 6 Per Cent. Stock.....	438,392 76	
One year's interest on Public Park, 1890, 6 Per Cent. Stock	33,333 96	
One year's interest on Exempt, 1893, 6 Per Cent. Stock.....	24,621 24	
One year's interest on Funding, 1900, 6 Per Cent. Stock.	48,000 00	
One year's interest on City Hall, 1884, 6 Per Cent. Stock.	60,000 00	
One year's interest on City Hall, 1900, 6 Per Cent. Stock.	60,000 00	
One year's interest on City Hall, 1902, 6 Per Cent. Stock.	30,000 00	
Amounts carried forward....	$1,289,761 03	$155,777 37

STATEMENT B—Continued.

Amounts brought forward.....	$1,289,761 03	$155,777 37
One year's interest on One Million, 1886, 6 Per Cent. Stock.....	60,060 00	
One year's interest on Valley R. R., 1886, 6 Per Cent. Stock.	60,918 00	
One year's interest on Five Million, 1890, 5 Per Cent. Stock.....	300,000 00	
One year's interest on Consolidated, 1893, 6 Per Cent. Stock.....	132,664 08	
One year's interest on Park Improvement, 1895, 6 Per Cent. Stock.....	11,143 38	
One year's interest on Jones' Falls, 1900, 6 Per Cent. Stock	48,000 00	
One year's interest on Western Md. R. R., 1902, 6 Per Cent. Stock.....	60,000 00	
One year's interest on Western Md. R. R. Second Mortgage Guaranteed Bonds.....	18,000 00	
One year's interest on Western Md. R. R. Third Mortgage Guaranteed Bonds.....	52,500 00	
		2,032,986 49
Amount carried forward.....		$2,188,763 86

STATEMENT B—Continued.

Amount brought forward.....		$2,188,763 86
PUBLIC SCHOOLS.		
Salaries.....	$465,000 00	
Rents and ground rents.....	29,000 00	
Books and stationery.....	40,000 00	
Heating apparatus and its repairs.....	10,000 00	
Furniture.....	8,000 00	
Fuel.....	13,000 00	
Repairs and cleaning.....	8,000 00	
Incidentals, printing, &c.....	8,000 00	
Colored schools.....	64,000 00	
Heating apparatus for School No. 1.....	2,845 00	
		647,845 00
STATE POLICE.		
Salaries of officers and men, and expenses.....		585,000 00
HEALTH DEPARTMENT.		
Cleaning streets and removing Garbage.....	$200,000 00	
Salaries.....	18,000 00	
Cleaning cesspools of public schools.....	3,200 00	
General health.....	15,000 00	
Amounts carried forward.....	$236,200 00	$3,421,608 86

STATEMENT B—Continued.

Amounts brought forward.....	$236,200	$3,421,608 86
Contract for removal of garbage.....	13,500 00	
Nuisances and sewers.....	10,000 00	
Marine Hospital.	15,000 00	
Post mortems..	300 00	
		275,000 00
HARBOR BOARD.		
Harbor.....	$80,000 00	
Maintenance of Ice Boat "F. C. Latrobe," balance.....	2,010 00	
Maintenance of Ice Boat "F. C. Latrobe" required for 1881.....	7,000 00	
New wall, City Dock, balance.	3,611 81	
New wall, City Dock, required for 1881.....	5,000 00	
Repairs of wharves, balance.	868 99	
" " required for 1881.....	2,131 01	
		100,621 81
DEPARTMENT OF LAMPS.		
Gas.....	$167,000 00	
Lamp pillars, lamps and gasoline oil.....	26,500 00	
		193,500 00
Amount carried forward.....		$3,990,730 67

STATEMENT B—Continued.

Amount brought forward.....		$3,990,730 67
CITY LIBRARY.		
Stationery, books, &c., for the several departments.....		9,000 00
INSPECTOR OF PUBLIC BUILDINGS.		
Repairs of public schools.....	$22,000 00	
Painting "	14,000 00	
Special repairs to market houses.....	16,000 00	
Repairs of other city property	7,000 00	
" City Hall.....	3,000 00	
Completion of Grammar School No. 7.....	7,323 00	
Building new school house in South Baltimore.....	15,000 00	
Salaries.....	3,000 00	
Contingent expenses.	200 00	
		87,523 00
COURT HOUSE AND RECORD OFFICE BUILDINGS.		
Salary of superintendent.....	$1,200 00	
" watchman.....	1,000 00	
" attendant on ladies' ordinary.....	300 00	
Amounts carried forward.....	$2,500 00	$4,087,253 67

STATEMENT B—Continued.

Amounts brought forward.....	$2,500 00	$4,087,253 67
Cleaning Criminal Court rooms.....	384 00	
Cleaning Court Common Pleas rooms.....	180 00	
Cleaning Record Office.....	120 00	
New furniture and repairs of old.....	175 00	
Buckets, brooms, brushes, &c.	35 00	
New stoves, (3).....	120 00	
Coal-hods and repairs.....	25 00	
Repairing gas and water fixtures.....	50 00	
Removing ashes and cleaning cellars.....	75 00	
Repairing stoves.....	150 00	
Whitewashing rooms and corridors.....	100 00	
Coal and wood, and stowing same.....	425 00	
Gas.....	200 00	
Ice.....	150 00	
Carpets, oil-cloth	125 00	
Ice-coolers and repairs.....	40 00	
Repairing locks and keys.....	50 00	
New curtains and repairs.	50 00	
Incidental expenses and extra help.....	50 00	
		5,004 00
Amount carried forward.....		$4,092,257 67

STATEMENT B—Continued.

Amount brought forward.....		$4,092,257 67
CITY COURT AND CIRCUIT COURT BUILDING.		
Salaries of janitor and watchman.....	$1,900 00	
Sixty tons of coal.....	300 00	
Stowing coal.....	20 00	
Three cords of kindling wood.	18 00	
Gas.....	100 00	
Cleaning Courts and offices....	500 00	
Repairing stoves.....	60 00	
Cleaning carpets.....	60 00	
Brooms, buckets, &c.....	35 00	
Hauling ashes and dirt.....	25 00	
Whitewashing.....	25 00	
Incidental expenses.....	100 00	
Ice.....	100 00	
Expense of three additional offices.....	150 00	
Oil-cloth and matting for City Court.....	54 83	
		3,447 83
CITY COMMISSIONER'S DEPARTMENT.		
Repairs of paved streets.....	$75,000 00	
" bridges.....	12,500 00	
" sewers and inlets...	15,000 00	
Amounts carried forward.....	$102,500 00	$4,095,705 50

STATEMENT B Continued.

Amounts brought forward.....	$102,500 00	$4,095,705 50
Repairs of unpaved streets.....	3,000 00	
Flag and stepping-stones.....	15,000 00	
Paving in front of City property.....	900 00	
Repaving streets.....	2,000 00	
Paving and repaving cross streets.....	15,000 00	
Incidentals.....	25 00	
Salaries.....	9,000 00	
Extension of Harford Run sewer, including bridges...	17,500 00	
Baltimore street sewer, balance.....	851 70	
Franklin and Bath street sewers.....	4,283 26	
To continue tunnelling of Chatsworth Run.....	22,716 23	
Fremont street Run and connection at Columbia street..	6,000 00	
Inlets to sewers on North avenue and McMechin street....	4,000 00	
Traps to Broadway sewer.....	332 04	
		203,108 23
GENERAL EXPENDITURES.		
City Council, salary of members and expenses.....	$55,000 00	
State tax on Five per cent. City Loans.....	10,052 00	
Amounts carried forward.....	$65,052 00	4,298,813 73

STATEMENT B—Continued.

Amounts brought forward....	$65,052 00	$4,298,813 73
Ground rent on Perkins' Spring Square.....	2,052 00	
City Collector, salaries.....	44,500 00	
Dog Pound.....	1,000 00	
Ice-boat "Maryland".....	10,000 00	
Ringing Mechanics' bells.....	200 00	
Election expenses.....	7,500 00	
Lamplighters' salaries.....	43,500 00	
Supervisors of Elections.....	2,000 00	
Public Printing.....	2,000 00	
Transportation to House of Correction.....	300 00	
City property, ground rents...	2,500 00	
General licenses.....	1,600 00	
General expense.....	1,500 00	
Commissioners for Opening Streets.....	150 00	
Salaries.....	66,000 00	
Insurance Bay View Asylum.	862 50	
Mayoralty	2,500 00	
Ground rent, Riverside Park.	3,770 62	
Expenses of public squares and springs.....	20,000 00	
Names on street lamps, balance.....	1,750 00	
Drinking fountains, balance..	700 00	
Discount on taxes.....	90,000 00	
Interest on temporary loans...	5,000 00	
Amounts carried forward....	$374,437 12	$4,298,813 73

STATEMENT B—Continued.

Amounts brought forward.....	$374,437 12	$4,298,813 73
Interest on paving notes.....	4,989 48	
Winding clock at Maryland Institute.....	75 00	
Refunded taxes.....	5,000 00	
		384,501 60

CITY POOR.

Maintenance of Bayview Asylum.....	$63,500 00	
Maintenance of Bayview Asylum, balance.....	6,500 00	
Transportation of poor to their homes.....	800 00	
Dispensaries.....	4,000 00	
St. Mary's Industrial School...	20,000 00	
Mount Hope Retreat.....	10,500 00	
Washington University Hospital.....	4,500 00	
University of Maryland.....	4,500 00	
Deaf and dumb at Frederick.	500 00	
Maryland Hospital for Insane.	21,000 00	
House of Refuge.....	20,000 00	
House of Reformation for Colored Children.....	15,000 00	
Widows and Orphans, War 1812.....	200 00	
Old Defenders, War 1812.....	300 00	
		171,300 00
Amount carried forward.....		$4,854,615 33

STATEMENT B—Continued.

Amount brought forward.....		$4,854,615 33
CERTAIN EXPENSES.		
Baltimore City Court.....	20,000 00	
Court of Common Pleas.....	20,000 00	
Coroners.....	2,400 00	
Circuit Court.....	10,900 00	
Judgments and Suits.....	16,000 00	
Jail.....	46,000 00	
Orphans' Court.....	8,000 00	
Magistrates.....	13,500 00	
Removed Cases.....	6,000 00	
Registration.....	13,000 00	
Superior Court.....	16,000 00	
Supreme Bench.....	2,650 00	
Criminal Court.....	68,000 00	
		242,450 00
FIRE DEPARTMENT.		
Salaries.....	$117,700 00	
Apparatus.....	5,333 00	
Apparatus repairs.....	8,259 00	
Accidents.....	2,000 00	
Feed.....	9,000 00	
Fuel.....	1,500 00	
Furniture.....	1,000 00	
Harness.....	900 00	
Amounts carried forward.....	$145,692 00	$5,097,065 33

STATEMENT B—Continued.

Amounts brought forward.....	$145,692 00	$5,097,065 33
Horse-shoeing.....	1,400 00	
Hose	8,000 00	
Horses.....	3,000 00	
Ground rent	1,200 00	
Gaslight.....	1,500 00	
Oils, grease, paints, &c.....	1,300 00	
Office expenses, including Messenger's pay	500 00	
Washing	1,400 00	
Police and Fire Alarm Telegraph.....	12,000 00	
Insurance, premium on lives of members.....	2,400 00	
Miscellaneous	600 00	
Medicine	100 00	
Repairs of Engine Houses.....	10,000 00	
Deficiency bills 1880.....	7,343 00	
		196,435 00
SUPERINTENDENT CITY HALL.		
Brooms, brushes, buckets, &c..	450 00	
Cleaning rooms, corridors, Council chambers, &c.....	4,800 00	
600 tons coal @ $5.50 per ton.	3,300 00	
10 cords wood @ $5 per cord..	50 00	
Cleaning carpets, drapery curtains, &c.....	300 00	
Repairs to furniture, gas and water fixtures	1,400 00	
Amounts carried forward.....	$10,300 00	$5,293,500 33

STATEMENT B—Continued.

Amounts brought forward.....	$10,300 00	$5,293,500 33
Gas.....	5,300 00	
Incidental expenses.....	300 00	
Ice.....	400 00	
Removing and hauling ashes and dirt.....	210 00	
Winding clock and Police and Fire Alarm striker.....	500 00	
Laborer @ $50 per month.....	600 00	
Covering and uncovering chandeliers, mirrors, &c.....	225 00	
New carpets, furniture, oil-cloth, mats, &c.....	1,500 00	
		19,335 00

OPENING AND WIDENING STREETS.

Opening Chase street, city's proportion of expenses.....	$1,750 54	
Opening John street, city's proportion of expenses.....	5,729 39	
Opening Marshall street No. 4, city's proportion of expenses	7,519 40	
Opening Marshall street No. 5, city's proportion of expenses	637 07	
Opening McElderry street, city's proportion of expenses	4,621 52	
Opening Presstman street, city's proportion of expenses	9,115 99	
Amounts carried forward.....	$29,373 91	$5,312,835 33

STATEMENT B – Concluded.

Amounts brought forward.....	$29,373 91	$5,312,835 33
Opening Robert street, city's proportion of expenses.....	24,049 90	
Opening of McKim street, city's proportion of expenses	3,981 72	
Opening McHenry street, city's proportion of expenses	55 44	
Opening of Wolfe street, city's proportion of expenses.....	6,536 43	
		$63,997 40
		$5,376,832 73

STATEMENT C.

Estimated Receipts from Taxes in arrear, and other sources of Revenue, for the fiscal year ending December 31st, 1881.

Overdue taxes, estimated receipts during the year 1881		$1,154,600 00
Baltimore and Ohio Railroad Company, interest on Five Million Loan	300,000 00	
Baltimore and Ohio Railroad Company, dividend on stock	325,000 00	
Water Board, interest on Water Stock 1894 and 1916	450,000 00	
City Passenger Railway Companies, interest on Park Stock	33,333 00	
Commissioners of Finance, interest on the Million Loan	60,000 00	
Commissioners of Finance, interest on loan to Western Maryland Railroad Co	60,000 00	
Commissioners of Finance, interest on Guaranteed Bonds of Western Maryland Railroad Company	70,500 00	
Public Schools, from State, and tuition fees	193,000 00	
Fines from Sheriff	1,500 00	
Jail Visitors	6,600 00	
Amount carried forward		$2,654,533 00

STATEMENT C—Concluded.

Amount brought forward	$2,654,533 00
Fines from Magistrates	400 00
Bayview Asylum	1,700 00
Marine Hospital	9,000 00
Sale of refuse	1,900 00
Fire Department	300 00
Permits for sheds, signs, &c	6,000 00
Vaults and areas	1,000 00
Markets, net	44,000 00
Wharfage, net	20,000 00
Inspector and Sealer of Gas Meters	2,600 00
General Licenses	38,000 00
Carriage Licenses	10,000 00
Theatricals	1,800 00
City seal	1,100 00
Turnpike dividends	500 00
Auction duties	10,000 00
Interest on Taxes in arrear	80,000 00
	$2,882,833 00

STATEMENT D.

NAMES OF ACCOUNTS.	FACE OF LEDGER. DR.	FACE OF LEDGER. CR.	Appropriat'ns.	Cash received from Collector of Taxes.	Cash received from other sources.
Baltimore City Court	$18,808 65	$19,000 00	$19,000 00		
Court of Common Pleas	18,600 92	21,000 00	21,000 00		
Coroners	2,400 00	2,400 00	2,400 00		
Circuit Court	10,335 91	10,900 00	10,900 00		
Fines		1,531 36			1,531 36
Judgments and Suits	15,329 52	16,346 95	16,000 00		346 95
Jail	47,900 52	54,628 16	48,000 00		6,628 16
Orphans' Court	7,794 16	8,000 00	8,000 00		
Magistrates	13,469 16	13,971 00	13,500 00		471 00
Removed Cases	8,288 68	13,165 22	5,500 00		7,665 22
Registration	12,464 71	13,000 00	13,000 00		
Superior Court	15,026 16	18,000 00	18,000 00		
Supreme Bench	2,650 00	2,700 00	2,700 00		
Certain Expenses		215,887 44		215,887 44	
Criminal Court	66,591 75	74,830 43	74,210 00	620 43	
Schools:					
Public Schools	554,784 18	1,161,556 42	620,000 00	366,518 38	175,038 04
Colored "	62,368 46	18,558 44			18,558 44
City Poor		140,971 25		140,971 25	
Bayview	58,858 44	65,629 90	63,862 50		1,767 40
Building addition to Bayview	200 00	9,500 00	9,500 00		
Transportation of Poor to their Homes	790 45	800 00	800 00		
Dispensaries	4,000 00	4,000 00	4,000 00		
St. Mary's Industrial School	20,000 00	20,000 00	20,000 00		
Mt. Hope Retreat	10,500 00	10,500 00	10,500 00		

Washington University Hospital	4,246 79	9,000 00	9,000 00		
University of Maryland	3,899 00				
Deaf and Dumb at Frederick	465 96	500 00	500 00		
Maryland Hospital for Insane	20,847 17	21,000 00	21,000 00		
House of Refuge	17,836 90	20,000 00	20,000 00		
" Reformation and Instruction for Colored Children	15,000 00	15,000 00	15,000 00		
Widows and Orphans, War 1812	200 00	200 00	200 00		
Old Defenders, War 1812	300 00	300 00	300 00		
Park Sinking Fund	15,774 30	15,774 30			15,774 30
City Hall Sinking Fund	3,810 36	3,810 36		3,810 36	
Jones' Falls "	10 33	10 33		10 33	
Funded Debt 1868 Sinking Fund	1,905 14	1,905 14		1,905 14	
" 1874 "	10 33	10 33		10 33	
Harbor Commission	89,839 02	90,000 00	90,000 00		
Ice Boat "F. C. Latrobe"	5,989 99	8,000 00	8,000 00		
Repairs of Wharves	4,131 01	5,000 00	5,000 00		
Maps of Harbor	490 00	500 00	500 00		
Repairs of City Dock	1,388 19	5,000 00	5,000 00		
Improving Central Pier at Back Basin	4,274 60	4,300 00	4,300 00		
State Police	583,382 45	1,094,837 61	590,000 00	504,837 61	
Health Department:					
Cleaning Streets	192,000 00	192,000 00	192,000 00		
Nuisances and Sewers	7,722 23	7,901 18	7,800 00		101 18
Marine Hospital	15,069 08	24,395 36	15,074 39		9,320 97
Refuse		1,968 38			1,968 38
General Health	30,639 50	30,639 50	30,639 50		
Fire Department:					
Fire Board	172,401 90	172,762 60	172,405 00		357 60
Amounts carried forward	$2,142,795 92	$3,641,691 66	$2,167,591 39	$1,234,571 27	$239,529 00

STATEMENT D—Continued.

NAMES OF ACCOUNTS.	FACE OF LEDGER. DR.	FACE OF LEDGER. CR.	Appropriat'ns.	Cash received from Collector of Taxes.	Cash received from other sources.
Amounts brought forward.....	$2,142,795 92	$3,641,691 66	$2,167,591 39	$1,234,571 27	$239,529 00
New Hook and Ladder Company.....	15,577 08	15,600 00	15,600 00	.....	.....
New Fire Alarm Boxes.....	390 32	430 00	430 00	.....	.....
Repairs of Clocks on Engine Houses.....	100 00	100 00	100 00	.....	.....
Inspector of Buildings:					
Salaries and Incidentals.....	3,038 27	3,050 00	3,050 00	.....	.....
Permits for Sheds, Signs, &c.....	964 39	5,978 86	.....	.....	5,978 86
Repairs of School Houses.....	24,997 15	25,000 00	25,000 00	.....	.....
" City Property.....	6,524 89	6,550 00	6,550 00	.....	.....
" City Hall.....	4,000 00	4,000 00	4,000 00	.....	.....
" Clock on Maryland Institute..	75 00	75 00	75 00	.....	.....
" Office of Insolvent Debtors...	200 00	200 00	200 00	.....	.....
Building Male Grammar and Primary School No. 1.	14,815 75	14,850 00	14,850 00	.....	.....
Building Grammar School No. 7.....	7,020 00	7,500 00	7,500 00	.....	.....
Park Commission:					
Druid Hill Park.....	91,349 24	107,072 18	.....	.....	107,072 18
Patterson "	11,327 90	200 00	.....	.....	200 00
Federal Hill "	14,866 95	15,012 75	15,000 00	.....	12 75
Riverside "	10,947 52	11,270 62	11,270 62	.....	.....
Harlem "	2,999 47	3,000 00	3,000 00	.....	.....
City Commissioner's Department.					
Salaries and Incidentals.....	9,516 50	9,525 00	9,525 00	.....	.....
Repairs of Paved Streets.....	72,284 03	72,522 14	72,500 00	.....	22 14

Repairs of Unpaved Streets	1,812 79	2,000 00	2,000 00		
" Bridges	7,994 65	8,074 09	8,074 09		
" Sewers	11,913 04	12,655 10	12,000 00		655 10
" Washington Road	497 50	500 00	500 00		
Improvement of Jones' Falls	505,952 72	1,050 62			1,050 62
Jones' Falls 5 per cent. Loan of 1900		710,734 28			710,734 28
Vaults and Areas		1,270 90			1,270 90
Recurbing Pleasant Street	50 70	75 00	75 00		
" Courtland "	174 28	174 28	174 28		
" Saratoga "	108 85	108 85	108 85		
Changing Flow of Water at Carrollton avenue and Franklin street	325 12	325 12	325 12		
Repaving Streets	2,490 20	3,000 00	3,000 00		
Inlets on North avenue	4,829 85	7,350 00	7,350 00		
Improving Streets around Marsh Market	3,419 94	3,419 94	3,419 94		
Cross Streets	14,974 03	15,000 00	15,000 00		
Chatsworth Run Sewer	283 77	20,000 00	20,000 00		
Baltimore Street "	6,710 65	7,562 35	7,562 35		
Franklin " "	8,716 74	13,000 00	13,000 00		
Fremont " "	10,083 12	14,005 25	14,000 00		5 25
Harford Run "	11,083 99	24,196 42	24,196 42		
Carey Street "	94 28	150 00	150 00		
Bloom " "	148 80	200 00	200 00		
Regrading Chase street	1,631 92	1,700 00	1,700 00		
" Biddle "	1,810 28	1,810 28	1,810 28		
Paving City Property	707 04	800 00	800 00		
Changing Grade of Hoffman street	970 24	1,000 00	1,000 00		
" " Caroline "	5,433 34	5,433 34	5,433 34		
" " S. Paca "		2,500 00	2,500 00		
Shelling Point Lane	149 95	150 00	150 00		
" Mine Bank Lane	140 90	150 00	150 00		
" Ridgely street	150 00	150 00	150 00		
Flag and Stepping-Stones	9,965 02	10,000 00	10,000 00		
Amounts carried forward	$3,046,414 09	$4,812,174 03	$2,511,071 68	$1,234,571 27	$1,066,531 08

STATEMENT D—Continued.

NAMES OF ACCOUNTS.	FACE OF LEDGER. DR.	FACE OF LEDGER. CR.	Appropriat'ns.	Cash received from Collector.	Cash received from other sources.
Amounts brought forward.....	$3,046,414 09	$4,812,174 03	$2,511,071 68	$1,234,571 27	$1,066,531 08
Improvement of Harford Run.....	39,829 38	40,000 00	.....	.....	40,000 00
Iron Plates	3,952 30	4,000 00	4,000 00	.....	.....
Inlets to Broadway Sewer.....	2,060 96	2,400 00	2,400 00	.....	.....
Sewer in Jail Yard.....	500 00	500 00	500 00	.....	.....
Removing Trees—Courtland and Saratoga streets.....	125 00	125 00	125 00	.....	.....
General Expenditures:					
Diary of City Council.....	54,074 61	54,532 90	54,532 90	.....	.....
Ice Boat "Maryland.".....	10,000 00	10,000 00	10,000 00	.....	.....
General Expense.....	1,214 30	2,000 00	2,000 00	.....	.....
Masonic Hall.....	3,453 13	3,503 09	3,503 09	.....	.....
Court House.....	4,690 16	4,745 80	4,745 80	.....	.....
Madison Square.....	3,498 92	3,500 00	3,500 00	.....	.....
Franklin "	1,200 00	1,200 00	1,200 00	.....	.....
Union "	1,500 00	1,500 00	1,500 00	.....	.....
Perkins' Spring Square.....	3,352 00	3,352 00	3,352 00	.....	.....
Park Place "	850 00	850 00	850 00	.....	.....
Jackson Square.....	850 00	850 00	850 00	.....	.....
Lafayette "	1,200 00	1,200 00	1,200 00	.....	.....
Eastern Fountain	2,201 48	2,250 00	1,500 00	.....	750 00
Mt. Vernon Squares.....	1,000 00	1,000 00	1,000 00	.....	.....
Broadway "	9,587 46	9,587 50	5,000 00	.....	4,587 50
Eutaw " 1st Division.....	2,500 00	2,500 00	2,500 00	.....	.....
" " 2d "	749 66	750 00	750 00	.....	.....
Johnston Square.....	2,500 00	2,500 00	2,500 00	.....	.....

Baker Circle	100 00	100 00	100 00		
Prospect Square	59 20	60 00	60 00		
Lafayette Market	247 02	596 00			596 00
Centre "	678 90	8,077 40	75 00		8,002 40
Belair "	697 75	8,386 40	200 00		8,186 40
Fell's Point "	591 87	6,057 16			6,057 16
Lexington "	762 49	10,541 50	150 00		10,391 50
Richmond "	562 65	3,993 48	110 00		3,883 48
Hanover "	636 56	4,551 94			4,551 94
Cross Street "	499 25	3,148 99	175 00		2,973 99
Hollins "	330 95	3,642 08			3,642 08
Hollins Hall		188 00			188 00
Cross Street Hall	1,041 78	1,694 00	1,200 00		494 00
Broadway Institute	93 05	1,781 00	100 00		1,681 00
Wharfage	6,700 68	25,989 03			25,989 03
Examiner of Titles	500 00	500 00	500 00		
Salaries	66,000 00	66,000 00	66,000 00		
City Library	5,999 57	6,003 17	6,000 00		3 17
Sesqui-Centennial Celebration	9,197 54	10,000 00	10,000 00		
Public Printing	1,780 05	2,598 00	2,582 00		16 00
Transportation to House of Correction	205 20	300 00	300 00		
Tax Sales	10,774 84	13,629 43			13,629 43
Special Appropriations	5,096 34	5,096 66	5,096 66		
Lots on North street, for United States Post-Office	9,824 82	10,000 00	10,000 00		
Lot corner Green street and Carpenter alley	10,000 00	10,000 00	10,000 00		
Ringing Mechanics' Bells	200 00	200 00	200 00		
State Tax on City Loans	9,739 69	9,900 00	9,900 00		
Names on Street Lamps		1,750 00	1,750 00		
Drinking Fountains		700 00	700 00		
Light Street Bridge	18,500 00	18,500 00	18,500 00		
Interest	107,449 27	296,461 43	124,000 00	172,401 07	60 36
Amounts carried forward	$3,465,572 92	$5,495,465 99	$2,886,279 13	$1,406,972 34	$1,202,214 52

STATEMENT D—Continued.

NAMES OF ACCOUNTS.	FACE OF LEDGER. DR.	FACE OF LEDGER. CR.	Appropriat'ns.	Cash received from Collector.	Cash received from other sources.
Amounts brought forward	$3,465,572 92	$5,495,465 99	$2,886,279 13	$1,406,972 34	$1,202,214 52
Superintendent of City Hall	14,985 59	15,000 00	15,000 00		
Interest on Stock Debt	1,331,731 92	2,401,446 49	1,808,946 49		592,500 00
Mayoralty	1,999 08	2,001 60	2,000 00		1 60
Commissioners for Opening Streets	148 86	150 00	150 00		
Supervisors of Elections	1,905 89	2,000 00	2,000 00		
Lamplighters	43,438 85	43,500 00	43,500 00		
Dog Pound	1,160 55	1,592 58	1,500 00		92 58
City Property	2,498 84	4,763 37	3,620 00		1,143 37
City Collector	43,982 25	44,000 00	44,000 00		
Elections	7,379 78	8,002 00	8,000 00		2 00
Post-Mortem Examinations	150 00	300 00	300 00		
Superintendent of Lamps and Inspector and Sealer of Gas Meters' Department.					
Inspecting and Sealing Gas Meters	200 00	2,816 75	200 00		2,616 75
Lamp Pillars and Lamps	25,462 44	26,639 60	26,500 00		139 60
Gas	120,074 95	120,075 00	120,075 00		
Miscellaneous.					
Water Board	929,183 78	632,377 93			632,377 93
Permanent Supply	426,241 12	415,663 79			415,663 79
General Licenses	1,447 61	40,327 94	1,600 00		38,727 94
Carriage "		10,702 50			10,702 50
Theatricals		1,826 00			1,826 00
City Seal		1,162 90			1,162 90
Sales of City Code		75 00			75 00

New Cross Street Market	1 50	430 69			430 69
New Richmond Market		4,494 81			4,494 81
Turnpike Dividends		499 50			499 50
Western Maryland Railroad Company's Coupons	600 00				
Loans	400,000 00	350,000 00			350,000 00
Refunded Taxes	7,971 05	8,000 00	8,000 00		
Auction Duties		9,685 19			9,685 19
Conscience Fund		1,419 87			1,419 87
Sarah Ann Fowler's Estate	1,715 16	3,584 87			3,584 87
Internal Improvements		13,325 89		13,325 89	
Direct Tax		1,396,340 57		1,396,340 57	
Miscellaneous Stocks		739,443 23		739,443 23	
Opening Streets		109,929 58		109,929 58	
Sales of City Property	199,465 22	204,372 06			204,372 06
Closing Oak street	165 67	236 17		236 17	
" School House lane	1,585 00	1,902 22		1,902 22	
" Hanson Mill road	241 71				
Condemnation of Federal Hill	5,279 50	9,003 20	9,003 20		
" Chatsworth Run	8,789 35	8,877 85	6,555 23	2,322 62	
Widening Eutaw street	65,017 06	64,931 78	28,481 45	35,895 33	555 00
Closing 20 foot alley, between Edmondson and Harlem avenues	181 00				
Opening Sharp street	209 50				
" Porter street	210 25				
" McElderry street	649 67	12 56		12 56	
" Luzerne street	476 54				
" Pressman street	95 70	304 40		304 40	
" Chase street	482 45	789 87		789 87	
" Patterson Park avenue	1,502 95	39 87		39 87	
" Forrest street	42 68	315 64	315 64		
" Oliver street	21,443 08	21,569 54	8,588 80	12,980 74	
" Bond street	17,259 35	16,691 73	1,717 63	14,974 10	
Amounts carried forward	$7,150,948 80	$12,236,090 53	$5,026,332 57	$3,735,469 49	$3,474,288 47

STATEMENT D—Continued.

NAMES OF ACCOUNTS.	FACE OF LEDGER. DR.	FACE OF LEDGER. CR.	Appropriat'ns.	Cash received from Collector.	Cash received from other sources.
Amounts carried forward	$7,150,948 80	$12,236,090 53	$5,026,332 57	$3,735,469 49	$3,474,288 47
Opening McKim street	.....	6,104 82	3,981 72	2,123 10	.....
" Ensor street	2,801 87	4,509 27	1,308 61	3,200 66	.....
" Caroline street	28,002 76	26,545 41	4,987 55	19,202 86	2,355 00
" North street	.....	266 78	34 40	232 38	.....
" Broadway	98,314 03	86,061 93	28,661 48	55,865 45	1,535 00
" Grove alley	.....	125 00	.....	.....	125 00
" Franklin street	81 92	184 48	184 48	.....	.....
" Roberts street	.....	3,036 36	.....	3,036 36	.....
" Wolfe street	.....	2,421 59	.....	2,421 59	.....
" John street	892 96	.....	.....	.....	.....
" Eden street	2,771 75	9,041 73	.....	5,192 75	3,848 98
" Patapsco street	250 68	250 68	250 68	.....	.....
" Jones street	199 59	199 59	199 59	.....	.....
" Collington avenue	669 33	669 33	669 33	.....	.....
" Burke street	733 52	733 52	733 52	.....	.....
" Race street	352 30	352 30	352 30	.....	.....
" Cannon street	762 34	762 34	762 34	.....	.....
" Truxton street	4,315 00	4,656 85	1,642 59	3,014 26	.....
" Hull street	.....	109 58	11 90	97 68	.....
" Chew street	.....	39 18	20 80	18 38	.....
" Vincent alley	3,848 94	4,267 10	212 23	4,054 87	.....
" Douglass street	3,421 03	1,794 71	1,794 71	.....	.....
" Marshall street	132 07	1,535 13	1,286 35	248 78	.....
" Biddle street	10,682 00	11,875 07	1,331 42	10,543 65	.....
" Rutter alley	100 83	.....	.....	.....	.....
" Gold street	441 37	.....	.....	.....	.....

Opening Wilmer alley	993 33	1,180 93	199 98	980 95	
" Addison "	100 00	62 50		62 50	
" Cathedral street	1,156 88	4 50		4 50	
" Decatur "	6,600 00	6,600 00	6,600 00		
" McHenry "		107 08		107 08	
" Eager "		287 35	284 35	3 00	
" Lawson lane	138 65				
" Hargrove alley	69 40				
" Valley street		284 34	284 34		
" Lexington street	75	549 23	549 23		
" Orleans "		384 92	384 92		
" Wilcox "		143 69		143 69	
Paving Townsend "	3,321 85	1,247 38		1,247 38	
" Exeter "	485 88				
" Bounty lane	271 64	291 60		291 60	
" Lanvale street	2,923 19	2,041 44		2,041 44	
" Washington street	4,854 82	4,853 50		4,853 50	
" Broadway	1,561 87				
" Pitcher street	1,653 33	995 00		995 00	
" Pratt "	38,638 13	754 87		754 87	
" Courtland street	94 73	5 71		5 71	
" Light "	42 18				
" Ostend "	473 98	177 80		177 80	
" Jackson court	147 67	29 66		29 66	
" Saratoga street	3,521 40	111 50		111 50	
" Calvert "	2,899 13	2,893 56		2,893 56	
" Fayette "	4,693 44	3,545 33	2,773 36	771 97	
" Sterrett "	1,606 94	695 87		695 87	
" Hoffman "	4,834 89	4,142 89		4,142 89	
" Baltimore "		226 72		226 72	
" Stricker "		171 15		171 15	
" Mount street	978 20	551 18		551 18	
" Haubert "		227 11		227 11	
Amounts carried forward	$7,391,785 37	$12,434,300 09	$5,085,834 75	$3,866,312 89	$3,482,152 45

STATEMENT D—Concluded.

NAMES OF ACCOUNTS.	FACE OF LEDGER. DR.	FACE OF LEDGER. CR.	Appropriat'ns.	Cash received from Collector of Taxes.	Cash received from other sources.
Amounts brought forward	$7,391,785 37	$12,434,300 69	$5,085,834 75	$3,866,312 89	$3,482,152 45
Paving 15 foot alley from Presstman to Laurens streets	528 88	290 07		290 07	
" Interest		2,473 99		2,473 99	
" Lancaster street	566 15				
" Bethel "	78 97				
" St. Paul "	1,469 05	2,340 57	1,354 53	986 04	
" King "	26 25				
" North avenue	324 67	24,596 46		24,596 46	
" Baker street		75 02		75 02	
" Wilkens avenue		412 49		412 49	
" Mason alley		202 83		202 83	
" South street	76 64	76 64	76 64		
" Second "	322 35	699 74	699 74		
" McElderry street	254 65	1,043 14		1,043 14	
" Lemon street		4 36		4 36	
" Castle "		751 19		751 19	
" Hampstead street		286 47		286 47	
" Federal "		358 17		358 17	
" Foster alley		158 59		158 59	
" Hammond alley		110 57		110 57	
" Vincent alley	48 05				
" Jackson street	923 99	1,003 69		1,003 69	
" Biddle "		1 80		1 80	
" Eager "		463 84		463 84	
" Lombard "		242 86		242 86	
" North "	1,807 86	2,933 14		2,933 14	

Paving Marshall street	269 92	801 74		801 74	
" Chester "		466 28		466 28	
" Pearl "	398 61	679 10	457 84	221 26	
" Randall "		2,146 78		2,146 78	
" Beason "		446 96		446 96	
" Fourth "		1,296 66		1,296 66	
" Argyle avenue	93 17	760 48		760 48	
" Canton "	39 33	247 40		247 40	
" W. Falls "	1,567 51				
" West street	659 55	705 41	705 41		
" Covington street	70 73	21 11		21 11	
" Central avenue	1,470 10	1,693 98		1,693 98	
" O'Donnell street		287 23		287 23	
" Dover street		6 05		6 05	
" Durst alley		74 18		74 18	
" Oliver street	633 64				
" McHenry street		688 95		688 95	
" Gilmor "		1,219 48		1,219 48	
" Ann "		127 52		127 52	
" Plum alley		399 10		399 10	
" Cole street		1,457 79		1,457 79	
Mayor and City Council	5,089,128 91				
Cash	7,397,223 01	7,403,415 44			
Totals	$19,889,767 36	$19,889,767 36	$5,089,128 91	$3,915,070 56	$3,482,152 45

STATEMENT E.

Receipts and Disbursements from December 31, 1879 to December 31, 1880.

	Receipts.	Disbursements.
January	$167,713 56	$716,886 63
February	604,591 02	294,826 73
March	573,262 83	398,051 04
April	278,815 90	621,116 23
May	285,362 17	699,743 49
June	1,607,391 29	562,305 56
July	731,709 62	803,699 83
August	405,494 16	640,684 06
September	557,089 67	618,304 34
October	469,339 26	690,729 71
November	693,010 36	699,577 70
December	1,023,443 17	657,490 12
	$7,397,223 01	$7,403,415 44
Balance December 31, 1879	328,710 05	
Balance December 31, 1880		322,517 62
	$7,725,933 06	$7,725,933 06

STATEMENT F.

FIVE MILLION LOAN SINKING FUND.

The condition of the Sinking Fund for the Redemption of the Five Million Loan to the Baltimore and Ohio Railroad Company the 31st day of December 1880, is as follows:

Consolidated Loan, 1890, 6 per cent. stock	$183,900 00
Five Million Loan, 1890, 6 per cent. stock	847,300 00
One Million Loan, 1886, 6 per cent. stock	157,400 00
City Hall Loan, 1884, 6 per cent. stock	52,900 00
City Hall Loan, 1900, 6 per cent. stock	17,000 00
City Hall Loan, 1902, 6 per cent. stock	2,400 00
Funding Loan, 1900, 6 per cent. stock	45,200 00
Consolidated Loan, 1893, 6 per cent. stock	331,900 00
Park Improvement Loan, 1895, 6 per cent. stock	6,600 00
Exempt Loan, 1893, 6 per cent. stock	12,200 00
Amount carried forward	$1,656,800 00

STATEMENT F—Continued.

Amount brought forward.		$1,656,800 00
Public Park Loan, 1890, 6 per cent. stock	45,300 00	
Western Maryland Railroad Loan, 1902, 6 per cent. stock.	38,400 00	
Valley Railroad Loan, 1886, 6 per cent. stock	50,000 00	
Jones' Falls Loan, 1900, 6 per cent. stock	10,500 00	
		$1,801,000 00
Water Loan, 1894, 5 per cent. stock	28,000 00	
Water Loan, 1916, 5 per cent. stock	288,100 00	
Jones' Falls Loan, 1900, 5 per cent. stock	46,700 00	
Consolidated Loan, 1885, 5 per cent. stock	34,000 00	
		396,800 00
Western Maryland Railroad Guaranteed Bonds, (registered)	23,000 00	
Western Maryland Railroad Guaranteed Bonds, (coupon).	56,500 00	
		79,500 00
Amount carried forward...		$2,277,300 00

STATEMENT F—Concluded.

Amount brought forward..	$2,277,300 00
Union Railroad Guaranteed Bonds, (coupon).....	500 00
Bills Receivable, Paving Notes of Mayor and City Council.	7,446 46
Bills receivable, Paving Certificates of Mayor and City Council.....	447 66
	$2,285,694 12
Cash.....	13 43
	$2,285,707 55

STATEMENT G.

WESTERN MARYLAND RAILROAD SINKING FUND.

The Condition of the Sinking Fund for the Redemption of the Bonds of the Western Maryland Railroad Company, guaranteed by the City of Baltimore, December 31st, 1880, is as follows:

Consolidated Loan, 1890, 6 per cent. stock	$9,400 00	
Consolidated Loan, 1893, 6 per cent. stock	3,600 00	
One Million Loan, 1886, 6 per cent. stock	1,500 00	
Western Mayland Railroad Loan, 1902, 6 per cent. stock	500 00	
Public Park Loan, 1890, 6 per cent. stock	1,100 00	
Five Million Loan, 1890, 6 per cent. stock	100 00	
Valley Railroad Loan, 1886, 6 per cent. stock	1,200 00	
City Hall Loan, 1884, 6 per cent. stock	2,000 00	
		$19,400 00
Water Loan, 1916, 5 per cent. stock	12,800 00	
Water Loan, 1894, 5 per cent. stock	100 00	
Amounts carried forward...	$12,900 00	$19,400 00

STATEMENT G—Concluded.

Amounts brought forward..	$12,900 00	$19,400 00
Consolidated Loan, 1885, 5 per cent. stock	500 00	
		13,400 00
Western Maryland Railroad Guaranteed Bonds, (registered)	9,000 00	
Western Maryland Railroad Guaranteed Bonds, (coupon)	152,000 00	
		161,000 00
		$193,800 00
Cash.....		566 09
		$194,366 09

COMMUNICATIONS.

HEALTH DEPARTMENT—CITY HALL.

Baltimore, December 29, 1880.

JOHN A. ROBB, ESQ., *City Register:*

Sir—I have the honor herewith to transmit the estimates for appropriations for the ensuing year, necessary for the conduct of this Department:

For street and garbage	$200,000
Salary account	18,000
Cleaning cesspools, Public Schools	3,200
General health	15,000
Contract, (removal of garbage)	13,500
Nuisance and sewers	10,000
Marine Hospital	15,000
Post mortems	300
	$275,000

Respectfully submitted,

JAMES A. STEWART, M.D.,

Commissioner of Health.

Baltimore, January 3, 1881.

JOHN A. ROBB, ESQ., *City Register:*

Sir—Estimated expense of the Criminal Court, Record Office and grounds, for the year 1881:

Superintendent ..... salary	$1,200	00
Watchman ..... "	1,000	00
Attending Ladies' Ordinary ..... "	300	00
Servants attending Criminal Court. "	384	00
Servants attending Court Com. Pleas "	180	00
Servants attending Record Office ... "	120	00
New furniture and keeping old in repair	175	00
Buckets, brooms, brushes, &c	35	00
Three new stoves which cannot be done without this year	120	00
Coal-hods and keeping in repair	25	00
Repairing gas and water fixtures	50	00
Removing ashes and cleaning cellars	75	00
Repairing stoves, relining and pipe	150	00
Whitewashing Criminal Court basement, Record Office	100	00
Coal and wood and storing away	425	00
Gas bills	200	00
Ice bills	150	00
Cleaning, relaying, and new carpets and oil cloths	125	00
Ice coolers and keeping in repair	40	00
Repairing locks and keys	50	00
New curtains and keeping in repair	50	00
Incidental expenses, extra help, &c	50	00
	$5,004	00

WM. H. CLIFFORD,

Superintendent Criminal Court,
Record Office and Grounds.

Baltimore, December 27, 1880.

JOHN A. ROBB, ESQ, *Register of the City.*

Sir—Enclosed please find estimated appropriations required for this department for the year 1881 :

For gas, including street lamps, markets and halls, squares, bridges, and erecting lamps, &c. $167,000
For lamps, pillars and lamps, including gasoline lamp supplies, gas and gasoline posts, lanterns, repairs of lamps &c..... 26,500

Yours obediently,

F. W. KING,

General Superintendent of Lamps and Inspector and Sealer of Gas Meters.

OFFICE BOARD OF FIRE COMMISSIONERS—CITY HALL.

Baltimore, January 1, 1881.

JOHN A. ROBB, ESQ., *City Register :*

Sir—The following is the amount of appropriation required by the Fire Department for the year ending December 31st, 1881 :

Salaries	$117,700 00
Apparatus	5,333 00
Apparatus repairs	8,259 00
Accident	2,000 00
Feed	9,000 00
Fuel	1,500 00
Furniture	1,000 00

Harness	900 00
Horseshoeing	1,400 00
Hose	8,000 00
Horses	3,000 00
Ground rent	1,200 00
Gaslight	1,500 00
Oils, grease, paints, &c	1,300 00
Office expenses, (including messenger's pay.	500 00
Washing	1,400 00
Police and Fire Alarm Telegraph	12,000 00
Insurance premiums on lives of members	2,400 00
Miscellaneous	600 00
Medicine	100 00
House repairs	10,000 00
	$189,092 00
Add Deficiency Bills, 1880	7,343 00
	$196,435 00

Very respectfully,

SAMUEL W. REGESTER, *President*,
FERDINAND C. LATROBE, *Ex-Officio*,
THOS. W. CAMPBELL,
CHAS. B. SLINGLUFF,
JAMES E. TROTT,
SAMUEL HANNAH,
J. F. MORRISON,

Board of Fire Commissioners.

Test:

GEO. A. CAMPBELL, *Secretary.*

Baltimore, January 10, 1881.

JOHN A. ROBB, ESQ., *City Register:*

Sir—The Inspector of Public Buildings will ask for appropriations as follows.

For general repairs of Public Schools	$22,000 00	
For painting the same	14,000 00	
		36,000 00
Special repairs of Market houses		16,000 00
City Property		7,000 00
City Hall		3,000 00
Completion of Grammar School No. 7		7,323 00
Building new School House in S. Baltimore.		15,000 00
Salaries		3,000 00
Contingent expenses, car fares, &c		200 00

Very respectfully,

WM. H. BEETLEY.
Inspector of Public Buildings.

OFFICE OF BAYVIEW ASYLUM—CITY HALL

Baltimore, December 31, 1880.

JOHN A. ROBB, ESQ., *City Register:*

Sir—In making up your estimate for the expenses for the various departments of the city government for the coming fiscal year, you will please ask for an appropria-

tion of seventy thousand ($70,000) dollars. Sixty-three thousand five hundred ($63,500) dollars of the above appropriation to be for the maintenance of the Institution, the other six thousand five hundred ($6,500) dollars to pay for the land purchased for the erection of the new Insane Building at Bay View Asylum for Baltimore City Almshouse.

Very respectfully,

JOSEPH FRIEDENWALD,
President of Board of Trustees

OFFICE OF SUPERINTENDENT CITY HALL.

Baltimore, January 1, 1881.

JOHN A. ROBB, ESQ., *City Register:*

Sir—The following is the estimate of expense for the year ending December 31, 1881.

Brooms, brushes, buckets, feather dusters, soap, muslin, mops, &c	$450 00
Cleaning rooms, corridors, Council Chambers, &c	4,800 00
600 tons coal @ $5.50 per ton	3,300 00
10 cords wood @ $5 per cord	50 00
Cleaning carpets, drapery, curtains, &c	300 00
Repairs to furniture, gas and water fixtures	1,400 00
Gas	5,300 00
Incidental expenses	300 00
Ice	400 00
Removing and hauling ashes and dirt	210 00

Winding Clock, Police and Fire Alarm Striker, &c.	500 00
Laborer $50 per month	600 00
Covering and uncovering chandeliers, mirrors, &c.	225 00
New carpets, oil cloth, furniture, mats, rugs, &c., for the Mayor's Public Office, Superintendent's Office, Book-keeper and Clerk of Records, Tax Department, Office of Judges of Appeal Tax Court, City Commissioner's Department, Cashier's Office Water Department, and furniture for the Office of the House of Refuge, &c., City Hall	1,500 00
	$19,335 00

Respectfully submitted,

JAMES DONNELLY,
Superintendent.

CITY LIBRARY—CITY HALL,
Baltimore, January 4th, 1881.

JOHN A. ROBB, ESQ., *City Register:*

Sir—The estimated requirements of this department for the present year will be nine thousand dollars ($9,000.)

Very respectfully,

SAMUEL D. SMITH,
City Librarian.

CITY COMMISSIONER'S OFFICE.

Baltimore, January 5th, 1881.

JOHN A. ROBB, ESQ., *City Register:*

Sir—The following is a statement of moneys required for the City Commissioner's department, for the year ending December 31st, 1880:

Repairs of paved streets	$75,000 00
" bridges	12,500 00
" sewers and inlets	15,000 00
" unpaved streets	3,000 00
Flag and stepping stones	15,000 00
Paving in front of city property	900 00
Repairing streets	2,000 00
Paving and repaving "cross streets"	15,000 00
Incidentals	25 00
Salaries	9,000 00
Extension of Harford Run sewer, including bridges	17,500 00
Baltimore street sewer, balance due	851 70
Franklin and Bath streets sewer	4,283 26
To continue tunneling of Chatsworth Run.	22,716 23
Fremont street sewer, including connection at Columbia street	6,000 00
Inlets to sewer on North avenue, including sewer in McMechin street	4,000 00
Traps to Broadway sewer	332,04
	$203,108 23

J. H. TEGMEYER,
Commissioner.

OFFICE OF THE COMMISSIONERS OF PUBLIC SCHOOLS,

Baltimore, December 27th, 1880.

JOHN A. ROBB, ESQ., *City Register :*

Sir—The Committee on Accounts of the School Board having carefully considered the requirements of the Public Schools, respectfully submit the following as their estimates for the year 1881 :

For Salaries	white schools...		$465,000
" Rents and ground rents....	"	...	29,000
" Books and stationery.....	"	...	40,000
" Heating apparatus and its repairs.....	"	...	10,000
" Furniture	"	...	8,000
" Fuel	"	...	13,000
" Repairs and cleaning.....	"	...	8,000
" Incidentals, printing, &c.	"	...	8,000
" Colored schools.....			64,000
			$645,000
To pay for heating apparatus (steam furnaces) for new No. 1.....			2,845
Total			$647,845

The amount $2,845 is carried over from 1880 for that purpose.

Respectfully submitted,

H. M. COWLES,
Secretary.

Baltimore, January 4, 1881.

JOHN A. ROBB, ESQ., *City Register:*

Sir—The following is an estimate of requirements for old Masonic Hall, City and Circuit Courts:

Salaries of janitor and watchman	$1,900 00
60 tons of coal	300 00
Stowing away	20 00
Three cords of kindling wood	18 00
Gas Company	100 00
Cleaning courts and offices	500 00
Repairing stoves	60 00
Cleaning carpets	60 00
Brooms, buckets, &c	35 00
Hauling ashes and dirt	25 00
Lime and whitewashing	25 00
Incidentals	100 00
Ice for courts and offices	100 00
Expenses of the additional office	150 00
Oil cloth and matting for City Court	54 83
	$3,447 83

Respectfully submitted,

P. REILLY,
Janitor.

OFFICE OF THE HARBOR BOARD OF BALTIMORE—CITY HALL.

Baltimore, January 6, 1881.

JOHN A. ROBB, ESQ., *City Register :*

Appropriations for 1881.

Work	Unexp'd Bal.	New Appropriat'n	Total.
Harbor		$80,000 00	$80,000 00
Ice Boat	2,010 00	7,000 00	9,010 00
New wall City Dock	3,611 81	5,000 00	8,611 81
Repairs of Wharves.	868 99	2,131 01	3,000 00
Totals	$6,490 80	$94,131 01	$100,621 81

In addition, while the Board do not ask, they are of opinion that it will be advantageous to complete paving of Centre Pier Back Basin, $3,500.

Very truly and respectfully yours,

N. H. HUITON, *Secretary.*

REPORT

OF THE

Department of Finance,

FOR THE YEAR 1880.

REPORT.

BALTIMORE, December 31, 1880.

To the Honorable the Members of the
First and Second Branches of the City Council:

GENTLEMEN:

The Commissioners of Finance have the honor to submit for your consideration, statements in detail, exhibiting their transactions during the year, as follows, viz:

1. A summary of receipts and payments on account of the various Sinking Funds.

2. A statement of investment purchases.

3. A statement exhibiting the amount of investments of the Sinking Funds, December 31, 1880.

4. A schedule of real estate from which income is derived.

5. A statement of the Funded Debt of the City, and of the Guarantees.

6. A balance sheet of the Sinking Funds' ledger.

7. A statement of the indebtedness of the Western Maryland Railroad Company to the Mayor and City Council of Baltimore.

8. A statement of the total liabilities of the Western Maryland Railroad Company.

The matters embraced in the foregoing are exhibited under the respective heads, in a detailed form, in the appendix to this report.

1.—Receipts and Payments.

The receipts have been derived as follows:

From cash to credit of Sinking Funds, December 31, 1879	$30,609 13	
From cash to credit of Water Loan, 1875, December 31, 1879	6,646 33	
		$37,255 46
From dividends on Baltimore and Ohio Railroad Stock	$292,500 00	
From Baltimore and Ohio Railroad Company, on account of purchase of Pittsburg and Connellsville Railroad Bonds	40,000 00	
From sale of real estate authorized by Ordinance No. 10, of 1880	196,290 91	
		528,790 91
From interest upon investments		397,912 14
From rental of real estate		17,230 41
Amount carried forward		$981,188 92

Amount brought forward...		$981,188 92
From Western Maryland Railroad Co., for rental of Hillen Station to December 15, 1880, under contract authorized by Ordinance No. 97, 1875....		16,000 00
(Of this amount, $2,000, being one-eighth, is set apart as a Sinking Fund.)		
From tax collections, levies for increase of funds.....		5,736 16
From City Passenger Railway Company		8,029 00
From Citizens' Railway Company		3,928 62
From York Road Railway Company		402 44
From People's Railway Company		1,215 87
From North Baltimore Railway Company.....		2,198 37
From sales of stock.....		405 32
		$1,019,104 70
The payments have been made as follows:		
For investment purchases...	$405,085 01	
For interest on Stock Debt.	481,920 00	
For Water Stock of 1875, redeemed.....	300 00	
For sundry expenses	1,358 25	
		888,663 26
Balance.....		$130,441 44

Balance brought forward....		$130,441 44
Cash in bank to credit of funds.....	124,095 11	
Cash in bank to redeem Water Stock, 1875, outstanding.....	6,346 33	
		$130,441 44

2.—Investment Purchases.

This statement is submitted in obedience to Article XLII, Section 13, of the Code, and exhibits in detail the purchase of stocks and bonds amounting to $385,335.01, at an average cost of 105\frac{12}{100}$ per cent., the total amount of said purchases being..... $405,085 01

3.—The Amount of Investments of the Sinking Funds,

Exhibiting in detail the amount and condition of the investments of the funds, as shown by the books of the Commissioners of Finance, as follows:

Productive Investments:

General Sinking Fund.....	$7,491,518 33	
Public Park Sinking Fund.	357,753 79	
Hillen Station Sinking Fund.....	10,485 66	
		$7,859,757 78

Amount brought forward...		$7,859,757 78
Other Productive Investments:		
Real Estate, as shown in Statement No. 4, from which is derived an annual rental of $7,601.88. This sum, capitalized at 6 per cent., is worth.....	126,698 00	
550 shares stock Baltimore and Reisterstown Turnpike Company	2,200 00	
625 shares stock Baltimore and Yorktown Turnpike Company.....	3,125 00	
120 shares stock Baltimore and Havre de Grace Turnpike Company	3,000 00	
137 shares stock Frederick Turnpike Company.....	206 00	
		$135,229 00
Unproductive Investments:		
Western Maryland Railroad Co., 4000 shares stock.....	$200,000 00	
Western Maryland Railroad Co., mortgage to secure endorsements.....	1,175,000 00	
Western Maryland Railroad Co., loan of City Stock....	1,000,000 00	
Amounts carried forward...	$2,375,000 00	$7,994,986 78

Amounts brought forward.	$2,375,000 00	$7,994,986 78
Western Maryland Railroad Co., accrued interest advanced.....	1,251,000 00	
Baltimore, Susquehanna and Tidewater Canal Company Stock, 7,600 shares..	380,000 00	
Baltimore and Hall Springs Railway Company Stock, 714 shares.....	14,280 00	
Valley Railroad Company of Virginia Stock.....	1,000,000 00	
		5,020,280 00
Total Productive and Unproductive Investments...		$13,015,266 78

INCREASE OF SINKING FUNDS.

The increase of the funds from December 31, 1879, to December 31, 1880, amounting to.....		$436,030 67
Was derived thus:		
From interest upon investments.....	$397,447 14	
From dividend on Baltimore and Ohio Railroad Stock.	292,500 00	
From sales of real estate....	196,290 91	
From rental of real estate...	17,230 41	
Amounts carried forward...	$903,468 46	$436,030 67

Amounts brought forward.		$903,468 46	$436,030 67
From rental of Hillen Station		14,000 00	
From tax collections		5,736 16	
From City Passenger Railway Company		8,029 00	
From Citizens' Railway Company		3,928 62	
From York Road Railway Company		402 44	
From People's Railway Company		1,215 87	
From North Baltimore Railway Company		2,198 37	
		$938,978 92	
Deduct:			
Am't paid Mayor and City Council for interest on Stock Debt	$292,500 00		
Am't paid for interest on One Million Loan, 1886	60,000 00		
Am't paid for interest on West. Md. R. R. Loan, 1902	60,000 00		
Am't paid for interest on West. Md. R. R. Bd's.	69,420.00		
Am't paid for sundry expenses	1,358 25		
Loss in purchase of stocks	19,670 00		
		502,948 25	
			$436,030 67

And disbursed and held as follows:			
For investment purchases...		$385,335 01	
For loss in purchase of stock for Hillen Station Sinking Fund.....		80 00	
		$385,415 01	
Less amount purchases belonging to 1879.....	$70,609 13		
Less sales of stock.	405 32		
Less amount received for Hillen Station Sinking Fund..	2,465 00		
		73,479 45	
		$311,935 56	
Amount on hand to credit of funds.....		124,095 11	
			$436,030 67

4.—Real Estate.

The schedule of real estate presented in this form for convenience of reference, embraces only so much of the city property as is in control and shown upon the books of this Board, and from which income is derived by rentals.

The income derived from the public wharves and other valuable property, being applied to current expenditures, does not appear in these accounts. Baltimore City Code, Section 14, Article XLII, page 717.

5.—The Funded Debt and Guarantees

Amount to a sum total		$36,092,298 06
At date of last annual report, December 31, 1879, these issues amounted to		35,023,798 06
Amount of increase during the year		$1,068,500 00
Thus:		
Amount of Five Per Cent. Water Loan, 1894, issued.	$378,800 00	
Amount of Five Per Cent. Jones' Falls Loan, 1900, issued	650,000 00	
Amount of Four Per Cent. Harford Run Improvement Loan issued	40,000 00	
	$1,068,800 00	
Less amount of Water Loan, 1875, redeemed during the year	300 00	
		$1,068,500 00

Increase of Funded Debt Authorized.

The Jones' Falls Loan, by Ordinance No. 12, of 1870	$1,760,400 00
The Harford Run Improvement Loan, 1920, by Ordinance No. 86, of 1879	210,000 00
The Paving Loan of 1920, by Ordinance No. 131, of 1880	500,000 00
	$2,470,400 00

7.—The Financial Condition of the Corporation.

Amount of Funded Debt, December 31st, 1880.....	$34,600,298 06	
Amount of Guarantee Liabilities, December 31st, 1880.....	1,492,000 00	
		$36,092,298 06
Less amount of cash in bank, set aside for the redemption of Water Stock, 1875, now outstanding.....		6,346 33
		$36,085,951 73
Of this amount interest is provided or paid as follows:		
The Baltimore and Ohio Railroad Company, upon.	$5,000,000 00	
The City Passenger Railway Companies, upon	555,566 25	
The Water Board, from income, upon..	9,000,000 00	
The Union Railroad Company, upon.....	117,000 00	
The Western Maryland Railroad Company, upon.....	200,000 00	
		14,872,566 25
Amount carried forward....		$21,213,385 48

Amount brought forward...			$21,213,385 48
Productive Investments:			
The Baltimore and Ohio Railroad Stock, 32,500 shares, at $180 per share.		$5,850,000 00	
Baltimore and Reisterstown Turnpike Company Stock, 550 shares.....		2,200 00	
Baltimore and Yorktown Turnpike Company Stock, 625 shares.....		3,125 00	
Frederick Turnpike Company Stock, 137 shares....		206 00	
Baltimore and Havre de Grace Turnpike Company Stock, 120 shares.....		3,000 00	
The Sinking Funds, value ..		7,859,757 78	
The real estate, annual rental...	$7,601 88		
The wharf property, annual income.....	45,000 00		
The market houses, annual income.....	45,000 00		
Annual income...	$97,601 88		
This provides interest upon.		1,626,698 00	
			15,344,986 78
Balance.....			$5,868,398 70

Unproductive Investments:

Western Maryland Railroad Company, 4000 shares stock	$200,000 00	
Western Maryland Railroad Company, mortgages to secure endorsements and loan of City Stock	2,175,000 00	
Western Maryland Railroad Company, accrued interest advanced	1,251,000 00	
Baltimore, Susquehanna and Tidewater Canal Company Stock, 7,600 shares	380,000 00	
Baltimore and Hall Springs Railway Company Stock, 714 shares	14,280 00	
Valley Railroad Company of Virginia Stock	1,000,000 00	
		$5,020,280 00

This statement does not embrace any items connected with current receipts and expenditures, but refers only to the stock and bond liabilities of the Corporation, and to investments specially set apart for redemption of the same.

The accounts now submitted for your consideration exhibit in detail all the transactions of the past year. They show the gross receipts from all sources to have been..... $1,019,104 70

The disbursements have been as follows, viz:

For investment purchases. (See statement No. 2).....	$405,085 01	
For interest paid upon the Funded Debt of the city....	481,920 00	
For redemption of Water Stock of 1875.....	300 00	
For sundry expenses paid during the year.....	1,358 25	
Total disbursements.....		$888,663 26
Balance, being amount cash in bank to credit of funds, December 31st, 1880.....		$130,441 44

A large proportion of this sum was held for payment of interest due January 1st, 1881, $95,250.00.

The present value of the redemption funds' investments, represented in statement 3, appendix, is shown to be...	$7,859,757 78
The value of the investments held on December 31st, 1879, as shown by the annual report, was.....	7,423,727 11
Thus showing an apparent increase during the year of.....	$436,030 67

Amount brought forward.....		$436,030 67
But of this sum there was derived from sales of real estate, made pursuant to Ordinance No. 10 of 1880, $196,290 91—a value hitherto represented in the real estate account, but now as the proceeds of the sales have been invested in City Stocks, and are so represented, this amount is deducted, so as to show the actual increase.....		196,290 91
Thus showing the net increase of the funds from increments, &c., to be.....		$239,739 76
The increase of funds during the year 1879, as shown by our last annual report, was.....		218,831 91
And thus the excess of increase for the past over the preceding year is shown to be.....		$20,907 85

This gratifying result justifies and strengthens our confidence in the efficiency of the redemption system, and in the sufficiency of the means provided for payment of the public debt at maturity.

You will not fail to notice that the loss to the funds by premiums paid on the investment purchases made the past year amounts to $19,670.00, and that this loss has been charged off. Had it been possible to invest the increment of the funds in City Stocks, at par, the increase during the year would have been greater, by this sum being added.

The sales of City Stocks during the past year have been made by public advertisement, inviting competitive bids, and we now report, as follows:

On March 4, 1880, sold $235,000, 5 per cent., Jones' Falls Loan, of 1900, at an average premium of $9\frac{23}{100}$ per cent. The total of bids being $1,035,000.

On November 10, 1880, sold $218,800, 5 per cent., Water Stock, of 1894, at an average premium of $112\frac{32}{100}$, per cent. The total of bids, $738,000.

On December 14, 1880, sold $200,000, 5 per cent., Jones' Falls Loan, of 1900, at an average premium of $114\frac{69}{100}$ per cent. Total of bids, $1,300,000.

Respectfully submitted,

FERDINAND C. LATROBE, *Chairman.*
JAS. SLOAN, JR.,
ROBERT T. BALDWIN,

Commissioners of Finance.

JOHN A. ROBB,

Clerk to Commissioners of Finance.

APPENDIX.

STATEMENT

Dr.	*The Commissioners of Finance in account with*		
To balance of cash in bank to credit of Sinking Funds....	$30,609 13		
To balance of cash in bank to credit of Water Loan of 1875	6,646 33		
			$37,255 46
To General Sinking Fund:			
Received for fractions of stock sold.....	$405 32		
Received from rental of real estate.....	17,230 41		
Received from rental of Hillen Station.....	14,000 00		
Received for interest on stock and investments.....	378,474 14		
Received for account of sale of Pittsburg and Connellsville Railroad Bonds.....	40,000 00		
Received from sale of real estate, authorized by Ordinance No. 10 of 1880.....	196,290 91		
Received of Mayor and City Council for tax levy.....	5,736 16		
			652,136 94
To Public Park Sinking Fund:			
Received for interest on stock	$18,973 00		
Received from City Passenger Railway Company.....	8,029 00		
Amounts carried forward..	$27,002 00		$689,392 40

No. 1.

the Mayor and City Council of Baltimore. CR.

By General Sinking Fund:		
Purchased fractions of City Stock	$335 01	
Purchased $325,400 of City Five Per Cent. Stock	344,170 00	
Purchased $35,000 of City Four Per Cent. Stock	35,000 00	
Paid one year's interest on One Million Loan, 1886	60,000 00	
Paid one year's interest on Western Maryland Railroad Loan, 1902	60,000 00	
Paid interest on Western Maryland Railroad Guaranteed Bonds	69,420 00	
Paid Wm. P. Twamley, on account, for examining records and making plats of city property	1,066 50	
Paid for printing and stationery	291 75	
		$570,283 26
By Public Park Sinking Fund:		
Purchased $18,000 of City Five Per Cent. Stock	$18,900 00	
Purchased $5,000 of City Four Per Cent. Stock	5,000 00	
		23,900 00
Amount carried forward...		$594,183 26

STATEMENT

DR. *The Commissioners of Finance in account with*

Amounts brought forward.	$27,002 00	$689,392 40
Received from Citizens Railway Company	3,928 62	
Received from York Road Railway Company	402 44	
Received from People's Railway Company	1,215 87	
Received from North Baltimore Railway Company	2,198 37	
		34,747 30
To Hillen Station Sinking Fund:		
Received for interest on stock	$465 00	
Received of Western Maryland Railroad Company	2,000 00	
		2,465 00
To Baltimore and Ohio Railroad Dividends:		
Received for dividends on stock, 9 per cent		292,500 00
		$1,019,104 70

No. 1.

the Mayor and City Council of Baltimore.	Cr.
By Hillen Station Sinking Fund:	
Amount brought forward.	$594,183 26
Purchased $1,600 of City Five Per Cent. Stock.....	1,680 00
By Baltimore and Ohio Railroad Dividends:	
Paid Mayor and City Council for interest on Stock Debt...	292,500 00
By Redemption of Water Loan, 1875:	
Paid for $300 Water Stock, 1875, redeemed.....	300 00
By balance, cash in bank.....	130,441 44
	$1,019,104 70

STATEMENT No. 2.

"The Commissioners of Finance shall invest in City Stock all moneys in their hands, or to their credit in bank, received for the sale or rent of city property pledged for the redemption of the public debt; and shall also invest all moneys that may hereafter be received from the above-mentioned sources, as well as all interest accruing thereon from time to time, and report to the City Council the amount purchased, and the dates and prices at which they were purchased."—Article XLII, Baltimore City Code, Section 13.

Date.	Sinking Fund.	Amount Purchased.	Description of Stock.	Amount Paid.
1880				
Mar. 8	General Sinking Fund.....	$51,600 00	5 per cent. Jones' Falls Loan	$54,180 00
" 8	Public Park Sinking Fund..	8,000 00	" " "	8,400 00
" 8	Hillen Station Sinking Fund	400 00	" " "	420 00
May 8	Public Park Sinking Fund..	5,000 00	Harford Run Improv't Loan	5,000 00
July 9	General Sinking Fund.....	50,000 00	Water Loan, 1894.....	52,500 00
" 9	" "	25,000 00	5 per cent. Jones' Falls Loan	26,250 00
" 9	" "	25,000 00	Harford Run Improv't Loan	25,000 00
Sep. 14	" "	148,800 00	5 per cent. Jones' Falls Loan	156,240 00
" 14	" "	50,000 00	Water Loan, 1894.....	55,000 00
" 14	Public Park Sinking Fund..	10,000 00	5 per cent. Jones' Falls Loan	10,500 00
" 14	Hillen Station Sinking Fund	1,200 00	" " "	1,260 00
Dec. 2	General Sinking Fund.....	10,000 00	Harford Run Improv't Loan	10,000 00
" 31	" "	335 01	Fractions of Stock at par.....	335 01
		$385,335 01		$405,085 01

RECAPITULATION.

Date.	Sinking Fund.	Amount Purchased.	Description of Stock.	Amount Paid.
1880				
Dec. 31	General Sinking Fund.....	$325,400 00	Five Per Cent. Stock.....	$344,170 00
" 31	" "	35,000 00	Four " "	35,000 00
" 31	" "	335 01	Fractions of City Stock.....	335 01
" 31	Public Park "	18,000 00	Five Per Cent. Stock.....	18,900 00
" 31	" "	5,000 00	Four " "	5,000 00
" 31	Hillen Station "	1,600 00	Five " "	1,680 00
		$385,335 01		$405,085 01

STATEMENT No. 3.

Condition of Sinking Funds December 31st, 1880.

General Sinking Fund:		
Consolidated Loan, 1890, 6 per cent. stock.....	$82,075	90
Five Million Loan, 1890, 6 per cent. stock.....	122,714	21
City Hall Loan, 1884, 6 per cent. stock.....	300,300	00
City Hall Loan, 1900, 6 per cent. stock.....	56,600	00
City Hall Loan, 1902, 6 per cent. stock.....	13,400	00
Funding Loan, 1900, 6 per cent. stock.....	134,600	00
One Million Loan, 1886, 6 per cent. stock.....	18,981	02
Western Maryland Railroad Loan, 1902, 6 per cent. stock.....	20,800	00
Park Improvement Loan, 1895, 6 per cent. stock.....	72,158	80
Public Park Loan, 1890, 6 per cent. stock.....	10,509	68
Consolidated Loan, 1893, 6 per cent. stock.....	1,250,341	38
Exempt Loan, 1893, 6 per cent. stock.....	353	87
Amount carried forward.....	$2,082,834	86

Amount brought forward...	$2,082,834 86	
Valley Railroad Loan, 1886, 6 per cent. stock.....	636,600 00	
Jones' Falls Loan, 1900, 6 per cent. stock.....	5,100 00	
		2,724,534 86
Jones' Falls Loan, 1900, 5 per cent. stock.....	255,100 00	
Consolidated Loan, 1885, 5 per cent. stock.....	427,241 47	
Water Loan, 1894, 5 per cent. stock.....	1,729,800 00	
Water Loan, 1916, 5 per cent. stock..	7,400 00	
Funding Loan, 1916, 5 per cent. stock.....	223,500 00	
		2,643,041 47
Harford Run Improvement Loan, 1920, 4 per cent. stock.....		35,000 00
Union Railroad Guaranteed Bonds.....		87,500 00
Western Maryland Railroad Guaranteed Bonds.	423,500 00	
Western Maryland Railroad Second Preferred Bonds...	178,500 00	
Western Maryland Railroad Funding Certificate.....	225,930 00	
Coupons Western Maryland Railroad First Mortgage Unendorsed Bonds.....	71,742 00	
		899,672 00
Amount carried forward.....		$6,389,748 33

Amount brought forward...		$6,389,748 33
Amount of obligation of the Baltimore and Ohio Railroad Company received for the claim of the city against the Pittsburg and Connellsville Railroad, as authorized by Ordinance No. 47 of 1875.	1,000,000 00	
Less payments on account of same made to the city by the Baltimore and Ohio Railroad Company	200,000 00	
		800,000 00
Hillen Street Station property.....	200,000 00	
Less amount of Hillen Street Station Sinking Fund, set apart for the repayment of the amount of the cost thereof.....	10,485 66	
		189,514 34
Cash.....		112,255 66
		$7,491,518 33
Public Park Sinking Fund:		
Consolidated Loan, 1890, 6 per cent. stock.....	200 00	
City Hall Loan, 1884, 6 per cent. stock.....	18,900 00	
Amount carried forward.....	$19,100 00	

Amount brought forward...	$19,100 00	
City Hall Loan, 1900, 6 per cent. stock.....	8,000 00	
Funding Loan, 1900, 6 per cent. stock.....	1,200 00	
One Million Loan, 1886, 6 per cent. stock.....	1,200 00	
Park Improvement Loan, 1895, 6 per cent. stock.....	9,600 00	
Public Park Loan, 1890, 6 per cent. stock.....	4,300 00	
Consolidated Loan, 1893, 6 per cent. stock.....	132,800 00	
Valley Railroad Loan, 1886, 6 per cent. stock.....	29,600 00	
		205,800 00
Jones' Falls Loan, 1900, 5 per cent. stock.....	26,500 00	
Water Loan, 1894, 5 per cent. stock.....	93,500 00	
Funding Loan, 1916, 5 per cent. stock.....	16,000 00	
		136,000 00
Harford Run Improvement Loan, 4 per cent. stock....		5,000 00
Cash.....		10,953 79
		$357,753 79

Hillen Station Sinking Fund:

Jones' Falls Loan, 1900, 5 per cent. stock	$3,000 00	
Water Loan, 1894, 5 per cent. stock	4,700 00	
Funding Loan, 1916, 5 per cent. stock	1,900 00	
		9,600 00
Cash		885 66
		$10,485 66

Recapitulation of the Condition of the Sinking Funds December 31, 1880.

General Sinking Fund	$7,491,518 33
Public Park Sinking Fund	357,753 79
Hillen Station Sinking Fund	10,485 66
	$7,859,757 78

STATEMENT No. 4.

A Schedule of Real Estate upon the books of the Commissioners of Finance.

LESSEE.	LOCATION OF LOTS.	ANNUAL RENTAL
Swain & Banks	Lots 9, 10, 11, 12, President street	$452 25
B. S. Holt	Lots 16 to 23, north side Block street	198 00
Joseph Kaufman	Lots 1, 2, 3, 4, 5, 6, Brown street	150 00
William Groscup	Lot 7, Brown street	33 60
C. L. Frank	Lot 8, "	19 20
Joseph Baumgarten	Lot 9, "	26 32
William Kleinhenn	Lot 10, "	26 32
Anton Young	Lots 11, 12, "	52 64
Charles N. Oehm	Lot 13, "	26 32
H. Klausmyer	Lot 14, "	25 48
Catharine Karch	Lot 15, "	26 32
N. Thomas & Co.	Lots 17, 18, "	52 64
Frederick Kull	Lot 19, "	19 20
George Winmer	Lot 20, "	20 32
E. Snellenberg	Lots 21, 22, "	54 49
J. A. G. Goetz	Lot 23, "	29 60
August Pfeil	Lot southwest corner Light and Brown streets.	78 06
George Hickman	Lot on Run alley	52 00
Wilson & Hunting	Lots 5, 6, 7, 8, west side President street	502 50

Estate Catharine Hook.....	Lot on Light street.....	75 70
Platt & Co.....	Fish House property, south side of the Basin...	2,025 00
Baltimore and Philadelphia Steamboat Company.....	200 feet on Light street wharf.....	3,600 00
August Pfeil.....	Lot 25, Brown street.....	29 60
Francis Schott.....	Lot 29, "	26 32
		$7,601 88

STATEMENT No. 5.

Statement of Funded Debt December 31st, 1880.

LOAN.	RATE.	WHEN PAYABLE.	AMOUNT.
Court House	5 per cent.	At pleasure after the year 1860	$ 85,900 00
Consolidated	5 "	" " " 1885	943,161 54
"	6 "	" " July 1, 1890	7,306,546 22
Public Park	6 "	" " Sept. 1, 1890	555,566 25
Exempt	6 "	" " Sept. 1, 1893	410,353 87
Water	6 "	" " July 1, 1894	263,000 00
"	5 "	" " July 1, 1894	3,737,000 00
Funding	6 "	" " July 1, 1900	800,000 00
"	5 "	" " July 1, 1916	1,000,000 00
Water	5 "	" " July 1, 1916	5,000,000 00
Harford Run Improv't	4 "	" " Jan. 1, 1920	40,000 00
City Hall	6 "	July 1, 1884	1,000,000 00
One Million	6 "	January 1, 1886	1,000,000 00
Valley Railroad	6 "	October 31, 1886	1,015,300 00
Five Million	6 "	January 1, 1890	5,000,000 00
Consolidated	6 "	September 1, 1893	2,211,068 05
Park Improvement	6 "	January 1, 1895	185,723 80
City Hall	6 "	April 15, 1900	1,000,000 00
Jones' Falls	6 "	April 9, 1900	800,000 00
"	5 "	April 9, 1900	739,600 00
Western Maryland R. R.	6 "	January 1, 1902	1,000,000 00
City Hall	6 "	March 7, 1902	500,000 00
Water	6 "	No interest allowed	6,346 33
Overdue Stock	6 "	" "	732 00
			$34,600,298 06

STATEMENT No. 5—Concluded.

Statement of Guaranteed Debt December 31, 1880.

Bonds of the Western Maryland Railroad Company:		
First Mortgage to mature January 1, 1890	$200,000 00	
Second Mortgage to mature January 1, 1890	300,000 00	
Third Mortgage to mature January 1, 1900	875,000 00	
		$1,375,000 00
Of which the Register of the City holds in the Western Maryland Railroad Sinking Fund $161,000.00.		
Bonds of the Union Railroad Company to mature January 1, 1895		117,000 00
Of which the Commissioners of Finance hold in the General Sinking Fund, $87,500.00		
Total Guaranteed Debt		$1,492,000 00

STATEMENT No. 6.

Balance Sheet of the Sinking Funds' Ledger December 31, 1880.

	Dr.	Cr.
General Sinking Fund		$112,255 66
Public Park Sinking Fund		10,953 79
Hillen Station Sinking Fund		885 66
Redemption of Water Loan, 1875.		6,346 33
Cash	$130,441 44	
	$130,441 44	$130,441 44

STATEMENT No. 7.

Statement of the Indebtedness of the Western Maryland Railroad Company to the Mayor and City Council of Baltimore, December 31st, 1880:

First mortgage endorsement		$200,000 00
Second mortgage endorsement	$300,000 00	
Interest thereon to January 1, 1881	216,000 00	
		516,000 00
Second Preferred Mortgage Bonds held by Commissioners of Finance		178,500 00
Third mortgage endorsement	$875,000 00	
Interest thereon to January 1, 1881	525,000 00	
		1,400,000 00
Fourth mortgage, to secure loan of city stock	$1,000,000 00	
Interest thereon to January 1, 1881	510,000 00	
		1,510,000 00
Funding certificate, being amount of matured coupons of First Mortgage Guaranteed Bonds and Second Preferred Mortgage Bonds, funded as per Ordinance No. 22, approved April 3d, 1879		225,930 00
Amount carried forward		$4,030,430 00

Amount brought forward...		$4,030,430 00
Coupons from unendorsed bonds of first mortgage, held by Commissioners of Finance.....	$71,742 00	
Interest due thereon to January 1, 1881.....	22,161 97	
		93,903 97
Total.....		$4,124,333 97
Less value of Western Maryland Railroad Sinking Fund.....		194,366 09
		$3,929,967 88

STATEMENT No. 8.

A statement of the total liabilities of the Western Maryland Railroad Company, December 31, 1880.

First and Preferred Second Mortgages, in hands of individuals:		
First Mortgage, market price 112	$400,000 00	
Preferred Second Mortgage, market price 107	421,500 00	
Funded Coupons, market price 95 to 100	304,320 00	
		$1,125,820 00
City's interest in and liability on account of First and Preferred Second Mortgage:		
First Mortgage endorsement	$200,000 00	
Preferred Second Bonds purchased	178,500 00	
First Mortgage Coupons (not funded)	71,742 00	
Interest on above Coupons.	22,161 97	
Funding Certificate	225,930 00	
	$698,333 97	
Less Sinking Fund in hands of Register of the City	194,366 09	
		503,967 88
Total First and Preferred Second		$1,629,787 88

Second Mortgage:

City's endorsement	$300,000 00	
Accrued interest	216,000 00	
		516,000 00
Washington County endorsement	$300,000 00	
Accrued interest	216,000 00	
		516,000 00
		$1,032,000 00

Third Mortgage:

City's endorsement	$875,000 00	
Accrued interest	525,000 00	
		1,400,000 00

Fourth Mortgage:

City Stock, loaned	$1,000,000 00	
Accrued interest	510,000 00	
		$1,510,000 00

RECAPITULATION.

First and Preferred Second (Individuals)		$1,125,820 00
First and Preferred Second (City)		503,967 88
Second Mortgage (City)		516,000 00
" " (Washington County)		516,000 00
Third Mortgage (City)		1,400,000 00
Fourth " (City)		1,510,000 00
Total		$5,571,787 88
Deduct in hands of individuals and Washington County		1,641,820 00
City's interest		$3,929,967 88
Capital Stock:		
Owned by the City	$200,000 00	
" Washington Co.	150,000 00	
" Individuals	332,250 00	
		$682,250 00

STOCK DEBT.

Name of Issue.	Rate per Annum.	When Payable.	Where Payable.
Five Million Loan . 1890	6 per cent.	Jan., April, July and Oct.	Nat. Farm. and Plant. Bank
Consolidated Loan, 1890	6 "	" " "	" "
City Hall Loan.... 1884	6 "	" " "	" "
" " 1900	6 "	" " "	" "
" " 1902	6 "	" " "	" "
Funding Loan.....1900	6 "	" " "	" "
Consolidated Loan, 1885	5 "	" " "	" "
Valley R. R. Loan . 1886	6 "	" " "	National Mechanics' Bank.
Park Imp. Loan....1895	6 "	" " "	" "
Court House Loan . 1860	5 "	" " "	" "
Public Park Loan . 1890	6 "	Mar., June, Sep. and Dec..	" "
Jones' Falls Loan.. 1900	6 "	Feb., May, Aug. and Nov.	" "
" " .1900	5 "	" "	" "
One Million Loan . 1886	6 "	January and July.....	" "
W. Md. R. R. Loan . 1902	6 "	" "	" "
Water Loan.....1916	5 "	May and November.....	" "
" 1894	5 "	" "	" "
Funding Loan.....1916	5 "	" "	" "
Exempt Loan.....1893	6 "	March and September....	" "
Consolidated Loan, 1893	6 "	" "	" "
Water Loan.....1894	6 "	May and November.....	City Register's Office.
Harford Run Imp. Loan 4	"	January and July.....	" "

GUARANTEES.

Name of Issue.	Rate per Annum.	When Payable.	Where Payable.
Western Maryland R. R. Company's Bonds....	6 per cent.	January and July.....	National Mechanics' Bank.
Union Railroad Company's Bonds.....	6 "	" "	Franklin Bank.

ANNUAL REPORT

OF THE

CITY COMPTROLLER,

TO THE

Mayor and City Council of Baltimore,

FOR THE

FISCAL YEAR ENDING DECEMBER 31, 1880.

REPORT.

DEPARTMENT OF THE CITY COMPTROLLER,

Baltimore, January 1, 1881.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

I have the honor of presenting herewith the report of this department for the fiscal year terminating with the 31st of December, 1880.

The following table is an exhibit of the receipts and disbursements of the city government from the 1st day of January, 1880, to the 31st day of December, 1880, both dates inclusive:

STATEMENT OF RECEIPTS.

From the City Collector, on account of the tax levy for 1880	$2,327,583 17		
" the City Collector, on account of taxes in arrears	1,255,736 06		
" the City Collector, interest on taxes in arrears	82,692 38		
" the City Collector, for opening, closing and widening streets and alleys	180,012 37		
" the City Collector, for paving streets and alleys	69,046 58		
		$3,915,070	56
" W. Sanders Carr, error in payment of an election bill		2	00
" ground rent due by sundry parties		1,143	37
" sundry parties, for injury to street lamps		139	60
" the inspection of gas meters		2,616	75
" wharfage by Harbor Masters		25,989	03
" auctioneers, for State tax on sales		9,685	19
" the Commissioner of Health, for sale of refuse		1,968	38
" the Commissioner of Health, money refunded for abating nuisances		101	18
Amount carried forward		$3,956,716	06

	Amount brought forward	$3,956,716 06
From	Marine Hospital fees.....	9,320 97
"	the State of Maryland, for the city's proportion of Public School tax, and from the Secretary of the School Board, for the use of books, &c.....	193,596 48
"	the City Librarian, for furnishing copies of papers in his office, &c.	3 17
"	sale of stalls in markets.....	4,925 50
"	market rents and licenses.....	48,284 95
"	rent of public halls.....	2,363 00
"	the Jail Visitors, for board of U. S. prisoners, hire of prisoners, &c.	6,628 16
"	error in payment of a bill on the Mayor's account.....	1 60
"	licenses for wagons, carts, billiards, dogs, &c.....	38,727 94
"	carriage licenses.....	10,702 50
"	theatrical licenses.....	1,826 00
"	sale of certificates of health and sealing papers.....	1,162 90
"	sale of property owned by the city	204,372 06
"	passenger railway companies and Park Board, for Druid Hill and Patterson Parks.	107,272 18
"	the Park Board, for Federal Hill Park.....	12 75
"	the Commissioners of Broadway Squares, on account of sale of railing.....	4,587 50
	Amount carried forward.....	$4,590,503 72

Amount brought forward.....		$4,590,503 72
From the Commissioners of Eastern Fountain, on account of sale of railing.....		750 00
" the City Commissioner for permits for vaults and areas.....	$1,270 90	
" the City Commissioner for permits for opening sewers.....	655 10	
" the City Commissioner for account of repairs of paved streets.....	22 14	
" the City Commissioner for account of Fremont street sewer.....	5 25	
" the City Commissioner for account of the improvement of Jones' Falls.....	1,050 62	
" the City Commissioner on account of advertising.....	16 00	
" the sale of Jones' Falls improvement stock of 1900.....	710,734 28	
" the County Commissioners of Baltimore and Howard counties, for expenses in the trial of cases removed to Baltimore city.....	7,665 22	
" the Sheriff, the city's proportion of fines.....	1,531 36	
" Jno. B. Piet, refunded for court costs paid in the suit against the Mayor and City Council.....	346 95	
" Magistrates, for fines for violation of city ordinances.....	471 00	
Amount carried forward.....		$5,315,022 54

	Amount brought forward.....	$5,315,022 54
From	Passenger Railway Companies for Park Sinking Fund.....	15,774 30
"	the Baltimore and Ohio R. R. Co., interest on the $5,000,000 loan...	300,000 00
"	the Commissioners of Finance, dividend on the Baltimore and Ohio R. R. Co.'s stock.....	292,500 00
"	the North Baltimore Passenger Railway Company, interest on deferred payments due the Park Board.	60 36
"	tax sales, for the redemption of property previously sold.....	13,629 43
"	the Trustees of Bayview Asylum for board of inmates and resident students, sale of refuse, &c.	1,767 40
"	the Water Board for rents, &c.	632,377 93
"	the sale of Water Loan of 1894.....	415,063 79
"	the Fire Commissioners, for sale of refuse, &c.....	357 60
"	temporary loans.....	350,000 00
"	permits and advertising for erecting sheds, signs, &c.....	5,978 86
"	dividends from Turnpike Companies.	499 50
"	the Pound Master for the sale of dogs.....	92 58
"	Sarah Ann Fowler's estate	3,584 87
"	the City Collector, taxes received from an unknown person.....	1,419 87
	Amount carried forward.....	$7,348,729 03

Amount brought forward.....	$7,348,729 03
From the sale of Harford Run improvement stock.....	40,000 00
" the sale of City Codes.....	75 00
" the sale of ground and material in connection with opening streets.	8,418 98
Cash in hands of the City Register, January 1st, 1880.....	328,710 05
	$7,725,933 06

STATEMENT OF DISBURSEMENTS.

For salaries and incidental expenses of the City Council.....	$54,074 61
" general expense account.....	1,214 30
" State and City elections.....	7,379 78
" the expenses of the Supervisors of Elections.....	1,905 89
" expenses of the Court House and Record Office.....	4,690 16
" expenses of Old Masonic Hall.....	3,453 13
" salaries of lamplighters.....	43,438 85
" salaries of city officers.....	66,000 00
" ground rents due by the city.....	2,498 84
" the General Superintendent of Lamps department.....	145,662 39
" commissions and incidental expenses of the Harbor Masters.....	6,700 68
" the Health Department.....	245,580 81
Amount carried forward.....	$582,599 44

Amount brought forward.....	$582,599	44
For special appropriations.....	5,096	34
" salaries and other expenses of public schools.....	617,152	64
" incidental expenses of the Commissioners for Opening Streets.....	148	86
" the Superintendent of the City Hall	14,985	59
" the City Librarian's Department....	5,999	57
" cleaning and repairs of markets....	5,004	44
" cleaning and repairs of Cross street and Broadway halls..	1,134	83
" expenses of the Jail.....	47,900	52
" incidental expenses of the Mayor's office.....	1,999	08
" general licenses, painting, advertising, &c.....	1,447	61
" amount paid to the Commissioners of Finance, and commissions, &c., in connection with the sale of property owned by the city.....	199,465	22
" insurance on Bayview Asylum.....	855	00
" Druid Hill and Patterson Parks.....	102,677	14
" Riverside Park.....	10,947	52
" Federal Hill Park.....	14,866	95
" account of public squares.....	34,148	19
" the City Commissioner's Department.....	196,114	28
" the improvement of Jones Falls....	505,952	72
" the improvement of Harford Run.	39,829	38
" the city's proportion for the purchase of Light street bridge.....	17,500	00
Amount carried forward.....	$2,405,825	32

	Amount brought forward.....	$2,405,825 32
For	expenses of the Courts.....	139,807 55
"	the cost of removed cases.....	8,288 68
"	the cost of judgments and suits.....	15,329 52
"	salaries of station-house magistrates and substitutes.....	13,469 16
"	coroners' salaries.....	2,400 00
"	expenses of registration of voters...	12,464 71
"	the Police Department.....	583,382 45
"	amount of sinking funds paid to the Commissioners of Finance....	21,510 46
"	interest on the stock debt.....	1,331,731 92
"	interest on loans, &c., and discount on taxes.....	107,449 27
"	public printing.....	1,780 05
"	taxes refunded by the Appeal Tax Court.....	7,971 05
"	the purchase of property to secure taxes.....	10,774 84
"	expenses of the City Collector's Office and Appeal Tax Court.....	43,982 25
"	transportation to House of Correction.....	205 20
"	carrying poor to homes.....	790 45
"	City Poor.....	155,299 26
"	ice-boat Maryland.....	10,000 00
"	the Water Board.....	929,183 78
"	the Gunpowder supply.....	426,241 12
"	the Fire Department.....	172,401 90
"	repairs of engine-houses.....	100 00
	Amount carried forward.....	$6,400,388 94

Amount brought forward.....	$6,400,388 94
For interest on the Western Maryland Railroad Company's bonds.....	600 00
" temporary loans.....	400,000 00
" the Harbor Board.....	106,112 81
" Inspector of Buildings Department	60,396 06
" advertising for the erection of sheds, signs, &c.....	964 39
" ringing mechanics' bells.....	200 00
" State tax on city loans.....	9,739 69
" the dog pound.....	1,160 55
" sundry payments from Sarah Ann Fowler's estate.....	1,715 16
" repairs to clock on Maryland Institute.....	75 00
" account of the condemnation of Federal Hill.....	5,279 50
" the purchase of lot corner of Green street and Carpenter alley.....	10,000 00
" the purchase of property on North street, for the U. S. Post-office.....	9,824 82
" new Hook and Ladder Company....	15,577 08
" the Examiner of Titles Office.....	500 00
" repairs to the Office of Insolvent Debtors.....	200 00
" account of building addition to Bayview Asylum.....	200 00
" new fire-alarm boxes.....	390 32
" the Inspector of Gas.....	75 00
" the Sesqui-Centennial Celebration..	9,197 54
Amount carried forward.....	$7,032,596 86

Amount brought forward	$7,032,596 86
For damages and incidental expenses in connection with opening streets...	286,185 24
" paving streets.....	84,633 34
Balance in hands of City Register, December 31, 1880.....	322,517 62
	$7,725,933 06

An examination of the financial departments of the city, demonstrates that notwithstanding the diminished rate of the tax levy for the year 1880, the financial condition of the city has materially improved since the annual report of last year.

On the 31st December, 1879, the deficiency or floating debt was.....	$296,370 28
On 31st December, 1880, it was..... ...	155,776 37
Diminution of floating debt in the year.	$140,593 91

The Committee of Ways and Means, in making up the levy for 1880, estimated among the receipts, that there would be collected during the year, on account of taxes in arrears and accrued interest thereon, the sum of $1,575,000. The annual report of the City Collector shows that the collections on said account amounted to $1,338,428.44, being $236,571.56 less than the estimate. If the calculation in this connection had been verified, there would have been a surplus in the City Treasury, at the termination of 1880, of $80,795.19, which sum would have been nearly equal to the unexpended balances of the annual appropriations.

This favorable condition of affairs may be attributed to the economy practiced by the City Council in making appropriations; the determination of the Mayor and the City Council to pass no appropriations whatever after the gross amount of the tax levy had been absorbed by appropriations, and the enforcement of the several ordinances of the city which prohibit the departments of the City Government from overdrawing their respective appropriations.

CITY PROPERTY.

In accordance with Ordinance No. 12, approved February 5th, 1880, the Comptroller purchased the fee of the building lot at the corner of South Green street and Carpenter alley, that had been leased to the city in 1867, ostensibly for the purpose of erecting thereon a public school, at the annual ground rent of five hundred dollars. The ordinance authorized the purchase upon the condition that it could be obtained for ten thousand dollars of the five-per-cent. stock of the city of 1916. The contract for that amount was accordingly made, and a deed for the same issued to the city on the 5th April, 1880. Under the provisions of the same ordinance the lot was sold at public auction on the 19th of May, 1880, for the sum of four thousand one hundred dollars, and the proceeds of said sale placed to the credit of the revenue of the city.

He, also, in pursuance of Ordinance No. 22, approved March 16th, 1880, sold at public auction, on the 19th of May, 1880, a certain leasehold and improvements located at No. 131 West Biddle street, for the sum of three

thousand one hundred and twenty-five dollars, which sum was paid into the city treasury, to be applied to the purposes of public education. The city became the possessor of said property under the provisions of the laws of Maryland, section 143, article 93 of Public General Laws, and section 830 of article 4 of Public Local Laws. (See communication of City Comptroller, page 141 of First Branch of the City Council for 1879–1880.)

Ordinance No. 10, approved February 25th, 1880, authorized and directed the Comptroller to "dispose of or sell at public auction all the real and leasehold property belonging to the Mayor and City Council of Baltimore that is now standing on the books of the Commissioners of Finance—the proceeds of which, by rentals or leaseholds, have hitherto been invested in the sinking funds for the payment of the funded debt of the city of Baltimore; such sale, however, to be subject to the conditions or terms of existing rentals or leases made by the Mayor and City Council of Baltimore to the tenants or occupants of such property." In accordance with the foregoing ordinance a plat was made of all of the city property located between Canton avenue on the north and the basin on the south, and between Canal street on the east and Jones' Falls on the west, and the property offered at public auction on the 21st June, 1880. All of it was sold, with the exception of two lots, which were withdrawn by the Comptroller because the prices offered therefor were much less than their value. These two lots are under annual rental, and the city, therefore, loses nothing by the withdrawal. They will again be offered when the

next sale of city property shall take place. The balance of the lots sold for two hundred and twenty-one thousand six hundred and twenty-one dollars, on which sales one hundred and ninety-eight thousand one hundred and seventy-five dollars have been paid to the City Register, and by him passed to the credit of the Commissioners of Finance, and placed in the sinking fund, to be applied to the liquidation of the public debt of the city; therefore, to that amount will the sinking fund be augmented. The balance of the property located in South Baltimore, which the Comptroller is authorized to dispose of under the provisions of Ordinance No. 10 aforesaid, will be offered at public auction as soon after the necessary papers and drawings in that connection shall have been completed as may be deemed most advisable for the city's interest.

Ordinance No. 2, approved February 11th, 1880, directed the Comptroller to offer for sale, at public auction, the old city yard property, on the south side of the basin, and to invest, through the Commissioners of Finance, the proceeds of the sale in the sinking fund, for the liquidation of the funded debt of the city. A plat was made of the property, and the Comptroller was about to advertise the same for sale, when he was advised that the extent of the water-front to which the city might be entitled had not been definitely determined. This matter of uncertainty, therefore, as to ownership in the most valuable portion of the property, would, it was believed, operate to depreciate materially the value of the property, and therefore the undersigned deemed it prudent to suspend the sale of

the same until the matter in dispute should be adjusted. This end will, it is believed, be accomplished without a recourse to the courts of law. This accomplished, the property will promptly be offered for sale, in accordance with the provisions of Ordinance No. 2, aforesaid.

FINANCIAL STATEMENTS IN DETAIL.

For information in detail connected financially with the operations of the department of the City Comptroller, I respectfully invite your attention to the subjoined tables:

Table A is a statement of the amount charged and credited to the City Register.

Table B shows the amount of taxes collected during the year, and the amount charged to the City Collector for taxes in arrears.

Table C is a statement of the receipts and disbursements of Markets, Sale of stalls in markets, General licenses, Carriage licenses, Theatrical licenses, City seals, Permits for sheds, signs, &c., Vaults and areas, Inspecting gas meters, Conscience fund, Sale of City Codes, City property, Auction duties, Public halls, Refuse, and Wharfage accounts.

Table D is a statement of the several Courts, Supreme Bench, Removed cases, Fines, Judgments and suits, Magistrates, Registration, and Baltimore City Jail.

Table E is an exhibit of the receipts from taxes and other sources, and payment on account of interest on the stock debt, the sale of Jones' Falls stock of 1900,

Loans, Permanent Water Supply, Water Board, the Sinking Funds, Interest, and Western Maryland Railroad.

Table F is a statement of the receipts and disbursements on account of the parks and squares.

Table G is a statement of the receipts and disbursements on account of the Health Department, Harbor Board, City Collector, City Poor, Building Addition to Bayview Asylum, Sesqui-Centennial Celebration, Dog Pound, Mayoralty, Sarah Ann Fowler's Estate, Sale of City Property, Gasoline Lamps, &c., City Council, City Librarian, Tax Sales, State Police, Refunded Taxes, Public Printing, Fire Department, New Hook and Ladder Company, Public Schools, Elections, Supervisors of Elections, and Special Appropriations.

Table H is a statement of the amounts appropriated and expended by the City Commissioner, the Inspector of Buildings, and for sundry accounts.

Table I shows the amounts received and paid for opening, closing and widening, and for paving streets, alleys, &c.

I have the honor to be,

Very respectfully,

Your obedient servant,

JOSHUA VANSANT,
Comptroller of the City.

APPENDIX.

TABLE A.

Dr. JOHN A. ROBB, *City Register, in account with*

1880.				
January	1	To Balance	$328,710	05
January	31	To Cash	167,713	56
February	29	"	604,591	02
March	31	"	573,262	83
April	30	"	278,815	90
May	31	"	285,362	17
June	30	"	1,607,391	29
July	31	"	731,709	62
August	31	"	405,494	16
September	30	"	557,089	67
October	31	"	469,339	26
November	30	"	693,010	36
December	31	"	1,023,443	17
			$7,725,933	06

TABLE A.

the Mayor and City Council of Baltimore. Cr.

1880.				
January	31	By Comptroller's warrants,		$718,132 86
February	29	"	" ...	294,532 81
March	31	"	" ...	397,145 68
April	30	"	" ...	621,459 58
May	31	"	" ...	699,524 59
June	30	"	" ...	562,945 05
July	31	"	" ...	803,838 05
August	31	"	" ...	640,007 40
September	30	"	" ...	618,205 47
October	31	"	" ...	704,252 90
November	30	"	" ...	699,685 45
December	31	"	" ...	643,685 60
		By Balance.....		322,517 62
				$7,725,933 06

TABLE B.

Collection of Taxes, Opening of Streets, &c., made by the City Collector, for the year ending December 31, 1880.

	1875.	1876.	1877.	1878.	1879.	1880.	TOTAL.
Internal Improvements	$ 61 98	$1,375 32	$11,888 59				$ 13 325 89
State Police	216 95	4,125 99	37,364 14	$40,094 50	$96,339 04	$326,696 99	504,837 61
Certain Expenses	82 65	1,178 84	18,682 10	15,420 96	33,509 20	147.013 69	215,887 44
Criminal Court	30 99	589 44					620 43
Public Schools	216 95	3,733 05	32,269 12	26 215 62	75,395 76	228,687 88	366,518 38
City Poor	51 65	982 37	10,190 18	10,794 65	20 943 27	98,009 13	140,971 25
Direct Tax	774 84	16,896 92	120 584 24	103,320 38	289,017 14	865,747 05	1,396 340 57
Miscellaneous Stocks	278 94	5,304 87	50 951 08	80 188 95	96,339 05	506,380 34	739 443 23
Opening Streets	92 98	589 44	10,190 18	16,963 01	16,754 57	65,339 40	109,929 58
City Hall Sinking Fund	20 67	392 96	3,396 73				3,810 36
Funded Debt of 1868	10 33	196 45	1,698 36				1.905 14
Jones' Falls Sinking Fund	10 33						10 33
Funded Debt of 1874	10 33						10 33
	$1.859 59	$35,365 65	$297.214 72	$292.998 07	$628,298 03	$2,237.874 48	$3 493,610 54
Interest	466 37	6,716 68	42,772 98	25.290 80	7,445 55		82,692 38
Discount						89,708 69	89,708 69
	$2,325 96	$42,082 33	$339,987 70	$318,288 87	$635,743 58	$2.327,583 17	$3,666,011 61
Opening, Closing and Widening Streets, &c							180.012 37
Paving Streets and Alleys							69.046 58
							$3,915,070 56

TABLE B—Concluded.

Amount charged against the City Collector, Dec. 31st, 1880.

YEAR.	LEVY.	BASIS OF TAXATION.	AMOUNT.
1877	$1.75	$ 2,393,053 00	$ 41,878 43
1878	1.90	16,506,192 00	313,617 64
1879	1.50	33,167,266 00	497,509 00
1880	1.37	72,084,059 00	987,551 62
			$1,840,556 69

TABLE C.

Hanover Market—George A. Albaugh, Clerk.

	Dr.	Cr.
Butcher stall rents		$994 50
Fish stall rents—permanent		80 00
" season		170 00
Permanent stall rents		282 00
Eave stall rents		166 00
Street stall rents		454 00
Cucumber stall rents		965 00
		$3,111 50
Licenses	$ 205 00	
Per diem rents	1,235 44	
		1,440 44
		$4,551 94

TABLE C—Continued.

Belair Market—Joseph H. Wright, Clerk.

	Dr.	Cr.
Butcher stall rents		$2,425 00
Fish stall rents		181 00
Permanent stall rents		350 00
Eave stall rents		242 00
Street eave stall rents		120 00
Gutter stall rents		618 00
Movable stall rents		158 00
Vegetable stall rents		12 00
		$4,106 00
Per diem rents	$1,730 30	
Licenses	2,345 00	
Confiscated butter	5 10	
		4,080 40
		$8,186 40

TABLE C—Continued.

Cross Street Market—James Graham, Clerk.

	Dr.	Cr.
Butcher stall rents		$805 00
Permanent stall rents		370 00
Fish stall rents		110 00
Eave stall rents		400 00
Vegetable stall rents		175 00
Street eave stall rents		100 00
		$1,960 00
Per diem rents		1,013 99
		$2,973 99

TABLE C—Continued.

Lexington Market—James C. Randall, Clerk.

	Dr.	Cr.
Butcher stalls—rent and license...		$2,180 00
Fish stalls, " ...		322 00
Permanent stalls, " ...		1,962 00
Eave stalls, " ...		1,526 00
Movable stalls, " ...		294 00
Street eave stalls, " ...		355 00
Space stalls, " ...		210 00
Street stalls, " ...		1,345 00
Nine & three months' stalls, " ...		42 00
		$8,236 00
Per diem rents.....		2,155 50
		$10,391 50

TABLE C—Continued.

Hollins Market—John O'Keefe, Clerk.

	Dr.	Cr.
Butcher stalls—rent and license...		$697 00
Fish stalls, " ...		63 00
Permanent stalls, " ...		200 00
Eave stalls, " ...		227 50
Street stalls, " ...		500 00
End stalls, " ...		50 00
Space stalls, " ...		205 00
Miscellaneous stalls, " ...		191 00
		$2,133 50
Per diem rents		1,508 58
		$3,642 08

TABLE C—Continued.

Centre Market—Daniel Murray, Clerk.

	Dr.	Cr.
Butcher stalls—rent and license...		$2,227 00
Fish stalls, " ...		254 00
Eave stalls, " ...		889 00
Gutter stalls, " ...		364 00
Permanent stalls, " ...		1,179 00
Street eave stalls, " ...		196 00
Movable stalls, " ...		781 00
		$5,890 00
Per diem Rents.....		2,112 40
		$8,002 40

TABLE C—Continued.

Richmond Market—David H. Lucchesi, Clerk.

	Dr.	Cr.
Butcher stalls—rent and license...		$1,064 48
Permanent stalls, " ...		306 00
Eave stalls, " ...		276 50
Vegetable stalls, " ...		630 00
Fish stalls, " ...		160 00
Street eave stalls, " ...		25 00
Aisle stalls, " ...		90 00
Movable stalls, " ...		107 00
Space stalls, " ...		20 00
		$2,678 98
Per diem rents.....		1,204 50
		$3,883 48

TABLE C—Continued.

Fells Point Market—Charles Eagleston, Clerk.

	Dr.	Cr.
Butcher stall rents		$1,775 00
Fish stall rents		56 00
Permanent stall rents		392 00
Eave stall rents		392 00
Vegetable stall rents		224 00
Street stall rents		32 00
Movable stall rents		60 00
		$2,931 00
Per diem rents	$1,534 46	
Licenses	1,585 00	
Confiscated butter	6 70	
		3,126 16
		$6,057 16

TABLE C—Continued.

Lafayette Market—Thomas Briddell, Clerk.

	Dr.	Cr.
Butcher stalls—rent and license...		$95 00
Fish stalls, " ...		5 50
Vegetable stalls, " ...		26 50
Permanent stalls, " ...		115 50
Eave stalls, " ...		277 50
Space stalls, " ...		73 00
Street cave stalls, " ...		3 00
		$596 00

TABLE C—Continued.

Summary of Markets.

	Dr.	Cr.
Hanover Market		$4,551 94
Belair "		8,186 40
Cross Street "		2,973 99
Lexington "		10,391 50
Hollins "		3,642 08
Centre "		8,002 40
Richmond "		3,883 48
Fell's Point "		6,057 16
Lafayette "		596 00
		$48,284 95
Expenses of Cleaning, Repairs, &c.		
Hanover Market	$636 56	
Belair "	693 25	
Cross Street "	499 25	
Lexington "	762 49	
Centre "	678 90	
Richmond "	562 65	
Fell's Point "	591 87	
Lafayette "	247 02	
Hollins "	330 95	
	$5,002 94	
Less amount expended as per Resolutions Nos. 78, 79, 80 and 140, for hose	490 00	
		$4,512 94
Net revenue		$43,772 01

TABLE C—Continued.

Amounts received from sale of Stalls in Markets.

	Dr.	Cr.
Cross Street Market		$430 69
Richmond Market		4,494 81
Amount paid for Constable's costs in a suit against Henry Callender, on account of a stall in Cross Street Market	$1 50	
Balance, December 31st, 1880	4,924 00	
	$4,925 50	4,925 50

General Licenses.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$1,600 00
By amount received from licenses on wagons, carts, drays, billiards, dogs, &c		38,727 94
To amount paid for painting, advertising, &c	$1,447 61	
To balance, December 31st, 1880	38,880 33	
	$40,327 94	$40,327 94

TABLE C—Continued.

Carriage Licenses.

	Dr.	Cr.
By amount received for license on carriages		$10,702 50
To balance, December 31st, 1880	$10,702 50	
	$10,702 50	$10,702 50

Theatrical Licenses.

	Dr.	Cr.
By amount received from licenses for balls, concerts, theatrical entertainments, &c		$1,826 00
To balance, December 31st, 1880	$1,826 00	
	$1,826 00	$1,826 00

TABLE C—Continued.

City Seals.

	Dr.	Cr.
By amount received from sale of bills of health and sealing papers.....		$1,162 90
To balance, December 31st, 1880...	$1,162 90	
	$1,162 90	$1,162 90

Permits for Sheds, Signs, &c.

	Dr.	Cr.
By amount received for permits for the erection of sheds, signs, steam boilers, &c		$4,258 86
By amount received for advertising.....		1,720 00
To amount paid for advertising...	$964 39	
To balance, December 31st, 1880...	5,014 47	
	$5,978 86	$5,978 86

TABLE C—Continued.

Vaults and Areas.

	Dr.	Cr.
By amount received for permits for constructing vaults and areas.....		$1,270 90
To balance, December 31st, 1880...	$1,270 90	
	$1,270 90	$1,270 90

Inspecting Gas Meters.

	Dr.	Cr.
By amount received from the General Superintendent of Lamps and Inspector and Sealer of Gas Meters.....		$2,616 75
To balance, December 31st, 1880...	$2,616 75	
	$2,616 75	$2,616 75

TABLE C—Continued.

Conscience Fund.

	Dr.	Cr.
By amount received by the City Collector from unknown parties for taxes due.....		$1,419 87
To balance, December 31st, 1880...	$1,419 87	
	$1,419 87	$1,419 87

Sale of City Codes.

	Dr.	Cr.
By amount received by the City Librarian for sale of City Codes of 1879.....		$75 00
To balance, December 31st, 1880...	$75 00	
	$75 00	$75 00

TABLE C—Continued.

City Property.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$3,620 00
By amount of ground rents received from sundry parties		1,143 37
To amount of ground rents paid to sundry parties	$2,498 84	
To balance, December 31st, 1880	2,264 53	
	$4,763 37	$4,763 37

Auction Duties.

	Dr.	Cr.
By amount received from auctioneers, State tax on sales		$9,685 19
To balance, December 31st, 1880	$9,685 19	
	$9,685 19	$9,685 19

TABLE C—Continued.

Public Halls.

	Dr.	Cr.
Cross Street Hall—		
By appropriation, resolution No. 114, 1880		$1,200 00
By amount received for rent		494 00
To amount paid for repairs	$1,041 78	
Hollins Hall—		
By amount received for rent		188 00
Broadway Hall—		
By appropriation, ordinance No. 62, 1880		100 00
By amount received for rent		1,681 00
To amount paid for cleaning	93 05	
To balance, December 31st, 1880,	2,528 17	
	$3,663 00	$3,663 00

Refuse.

	Dr.	Cr.
By amount received from the Commissioner of Health, from sale of street dirt		$1,968 38
To balance, December 31st, 1880	$1,968 38	
	$1,968 38	$1,968 38

TABLE C—Concluded.

Collection of Wharfage from January 1st, 1880, to December 31st, 1880.

DATE.	1st District.	2d District.	3d District.	4th District.	5th District.	6th District.	Aggregate
January	$54 75	$320 43	$626 86	$440 41	$941 66	.....	$2,384 11
February	20 13	200 53	507 59	388 91	700 69	.....	1,817 85
March	60 00	309 08	486 79	456 17	780 74	.....	2,092 78
April	79 75	202 08	485 36	363 17	943 80	.....	2,074 16
May	14 75	259 56	481 79	340 17	968 21	.....	2,064 48
June	78 75	242 54	304 44	362 78	1,163 66	.....	2,152 17
July	54 00	278 83	431 34	348 98	863 90	.....	1,977 05
August	10 00	311 62	646 56	400 87	1,013 23	$11 60	2,393 88
September	82 75	301 39	616 86	528 37	1,039 68	3 00	2,572 05
October	56 00	378 09	722 65	367 17	903 21	13 65	2,440 77
November	26 00	302 13	558 46	402 77	748 19	17 25	2,054 80
December	93 25	280 74	535 36	417 92	637 66	.....	1,964 93
	$630 13	$3,387 02	$6,404 06	$4,817 69	$10,704 63	$45 50	$25,989 03

Total collections from January 1st, to December 31st, 1880		$25,989 03
Less amount of commissions paid to Harbor Masters	$5,197 75	
" " paid for office rent and incidental expenses	347 43	
" " of Boatmen's salary	1,040 00	
" " of expense of anchorage grounds	115 50	
		6,700 68
Net revenue		$19,288 35

TABLE D.

Superior Court.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$18,000 00
To amount paid Clerk	$1,468 31	
" " Crier	1,500 00	
" " Bailiffs	6,000 00	
" " Janitor	360 00	
" " Jurors	5,484 50	
" " Sheriff	119 35	
" " Drawing Jurors	80 00	
" " Witnesses	14 00	
To balance, December 31st, 1880	2,973 84	
	$18,000 00	$18,000 00

TABLE D—Continued.

Criminal Court.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$73,000 00
By appropriation, Ordinance No. 62, 1880		500 00
By appropriation, Resolution No. 136, 1880		650 00
By appropriation, Resolution No. 159, 1880		60 00
To amount paid State's Attorney	$11,378 87	
" " Clerk	16,060 99	
" " Sheriff	9,764 57	
" " Bailiffs	9,000 00	
" " Interpreter	999 96	
" " Drawing Jurors	180 00	
" " Board of Jurors	647 50	
" " Incidental expenses	93 50	
" " Repairs	1,186 39	
" " Grand and Petit Jurors and Witnesses	17,279 97	
To balance, December 31st, 1880	7,618 25	
	$74,210 00	$74,210 00
Amount received from the City Collector on account of the tax levy	$620 43	

TABLE D—Continued.

Court Common Pleas.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$21,000 00
To amount paid to Clerk	$2,644 55	
" " Crier	1,500 00	
" " Bailiffs	4,500 00	
" " Watchman	1,000 02	
" " Sheriff	222 00	
" " Jurors	8,286 50	
To amount paid for drawing Jurors.	220 00	
" " Stationery	226 85	
" to Witness	1 00	
To balance, December 31st, 1880	2,399 08	
	$21,000 00	$21,000 00

TABLE D—Continued.

Baltimore City Court.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$19,000 00
To amount paid to Clerk	$2,034 50	
" " Crier	1,500 00	
" " Bailiffs	6,000 00	
" " Sheriff	155 60	
" " Jurors	8,802 50	
" " Witness	5 00	
" for Drawing Jurors	180 00	
" " Stationery	131 05	
To balance, December 31st, 1880	191 35	
	$19,000 00	$19,000 00

TABLE D—Continued.

Circuit Court.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$9,500 00
By appropriation, Ordinance No. 62, 1880		900 00
By amount transferred from the account for building an addition to Bayview Asylum, as per Resolution No. 243, 1880		500 00
To amount paid Bailiffs and Messenger	$7,500 00	
" " Watchman	900 00	
" " Clerk	204 80	
" " for Draw'g Jurors	240 00	
" " Stationery	205 05	
" " Repairs	1,286 06	
To balance, December 31st, 1880	564 09	
	$10,900 00	$10,900 00

TABLE D—Continued.

Orphans' Court.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$8,000 00
To amount paid to Judges	$5,652 00	
" " Bailiff	1,256 00	
" " Janitor	699 96	
" " for incidental expenses	186 20	
To balance, December 31st, 1880	205 84	
	$8,000 00	$8,000 00

Supreme Bench.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$2,700 00
To amount paid to Judges	$2,500 00	
" " City Collector, for furnishing list of taxpayers	150 00	
To balance, December 31st, 1880	50 00	
	$2,700 00	$2,700 00

TABLE D--Continued.

Removed Cases.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$5,500 00
By amount received from Howard county		953 73
By amount received from Baltimore county		6,711 49
To amount paid to sundry parties	$8,288 68	
To balance, December 31st, 1880	4,876 54	
	$13,165 22	$13,165 22

Fines.

	Dr.	Cr.
By amount received from Philip M. Snowden, late Sheriff, for the city's portion of fines imposed by the Criminal Court		$368 72
By amount received from A. E. Smyrk, Sheriff		1,162 64
To balance, December 31st, 1880	$1,531 36	
	$1,531 36	$1,531 36

TABLE D—Continued.

Judgments and Suits.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$16,000 00
By amount received from Jno. B. Piet		346 95
To amount paid to sundry parties	$15,329 52	
To balance, December 31st, 1880	1,017 43	
	$16,346 95	$16,346 95

Magistrates.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$13,500 00
By amount of city's proportion of fines		471 00
To amount paid for salaries	$12,582 50	
To amount paid for substitutes	886 66	
To balance, December 31st, 1880	501 84	
	$13,971 00	$13,971 00

TABLE D—Concluded.

Registration.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$13,000 00
To amount paid for salaries of Registers and Counsellor	$10,442 46	
To amount paid for advertising, stationery, &c	2,022 25	
To balance, December 31st, 1880.	535 29	
	$13,000 00	$13,000 00

Baltimore City Jail.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$48,000 00
By amount received for board of U. S. prisoners		3,132 00
By amount received for hire of prisoners		2,305 92
By amount received from the counties for board of prisoners		680 50
By amount received from sale of refuse and other sources		509 74
To amount paid on the warrants of the Board of Visitors	$47,900 52	
To balance, December 31st, 1880.	6,727 64	
	$54,628 16	$54,628 16

TABLE E.

Receipts from taxation and other sources, and payments on account of interest on the Stock Debt.

	Dr.	Cr.
Received from the City Collector on account of the tax levy for internal improvements		$13,325 89
Received from the City Collector on account of the tax levy for miscellaneous stocks		739,413 23
Received from the Baltimore and Ohio Railroad Company, interest on the $5,000,000 loan		300,000 00
Received from the Commissioners of Finance, dividend on 32,500 shares Baltimore and Ohio Railroad stock		292,500 00
Paid interest on the Stock Debt	$1,331,731 92	
Balance, December 31st, 1880	13,537 20	
	$1,345,269 12	$1,345,269 12

TABLE E—Continued.

Jones' Falls Stock.

	Dr.	Cr.
Proceeds of sale of 5 and 6 per cent. stock, prior to January 1st, 1880.....		$912,773 08
Proceeds of sale of 5 per cent. stock during the past year...		710,734 28
Balance, December 31st, 1880.	$1,623,507 36	
	$1,623,507 36	$1,623,507 36

Loans.

	Dr.	Cr.
By balance, January 1st, 1880.		$200,000 00
By amount borrowed from sundry parties.....		350,000 00
To amount paid to sundry parties.....	$400,000 00	
To balance, December 31st, 1880.....	150,000 00	
	$550,000 00	$550,000 00

TABLE E—Continued.

Permanent Water Supply.

	Dr.	Cr.
By balance, January 1st, 1880.		$123,553 80
By amount received from the proceeds of the sale of stock		415,663 79
To amount paid on the warrants of the Water Board....	$426,241 12	
To balance, December 31st, 1880.....	112,976 47	
	$539,217 59	$539,217 59

Water Board.

	Dr.	Cr.
By balance, January 1st, 1880.		$293,839 44
By amount received for water rents.....		632,377 93
To amount paid on warrants of the Water Board, for interest on the Water Loan, salaries and other expenses.	$929,183 78	
By balance, December 31st, 1880.....		2,966 41
	$929,183 78	$929,183 78

TABLE E—Continued.

Receipts on account of the Sinking Fund.

	Dr.	Cr.
Received from City Passenger Railway Companies for Park Sinking Fund, as follows:		
Baltimore City Passenger Railway Company		$8,029 00
Citizens' Passenger Railway Company		3,928 62
York Road Passenger Railway Company		402 44
North Baltimore Passenger Railway Company		2,198 37
People's Passenger Railway Company		1,215 87
Received from the City Collector on account of Jones' Falls Sinking Fund		10 33
City Hall Sinking Fund		3,810 36
Funded Debt of 1868		1,905 14
Funded Debt of 1874		10 33
Amount paid to Commissioners of Finance	$21,510 46	
	$21,510 46	$21,510 46

TABLE E—Continued.

General Interest.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$124,000 00
By amount received from the City Collector, for interest on arrearages of taxes		82,692 38
By amount received from the North Baltimore Passenger Railroad Company, interest on deferred payments due the Public Park Commissioners		60 36
To amount of discount on taxes	$89,708 69	
To amount paid for interest on loans, and on accounts due by the Mayor and City Council of Baltimore	17,740 58	
To balance, December 31st, 1880	99,303 47	
	$206,752 74	$206,752 74

TABLE E—Concluded.

Western Maryland Railroad Company.

	Dr.	Cr.
To balance, January 1st, 1880,	$1,080,927 57	
To amount paid by the city on account of interest on the bonds guaranteed by the Mayor and City Council of Baltimore.....	600 00	
By balance, December 31st, 1880.....		$1,081,527 57
	$1,081,527 57	$1,081,527 57

TABLE F.

Druid Hill and Patterson Parks.

	Dr.	Cr.
By balance, January 1st, 1880...		$2,429 85
By amount received from Passenger Railway Companies, as follows:		
Baltimore City Passenger Railway Company.....		65,449 93
Citizens' Passenger Railway Company		15,714 54
York Road Passenger Railway Company.....		1,609 74
North Baltimore Passenger Railway Company.....		8,793 52
People's Passenger Railway Company		4,863 51
By amount received from the Public Park Commissioners;		
On account of Druid Hill Park...		10,640 94
" " Patterson " ...		200 00
To amounts paid on warrants of the Public Park Commissioners:		
For Druid Hill Park.....	$58,015 28	
" Patterson "	11,327 90	
" interest on Public Park stock.	33,333 96	
To balance, December 31st, 1880.	7,024 89	
	$109,702 03	$109,702 03

TABLE F—Continued.

Riverside Park.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$5,000 00
By appropriation, Resolution No. 151, 1880		2,500 00
By appropriation, Ordinance No. 62, 1880, for rent		3,770 62
To amount paid on the warrants of the Public Park Commissioners	$7,176 90	
To amount paid for rent	3,770 62	
To balance, December 31st, 1880	323 10	
	$11,270 62	$11,270 62

Federal Hill Park.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$15,000 00
By amount received from the Public Park Commissioners		12 75
To amount paid on the warrants of the Public Park Commissioners	$14,866 95	
To balance, December 31st, 1880	145 80	
	$15,012 75	$15,012 75

TABLE F—Continued.

Broadway Squares.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$3,500 00
By appropriation, Resolution No. 150, 1880		1,500 00
By amount received on account of sale of railing, &c		4,587 50
To amount paid on warrants of the Commissioners	$9,587 46	
To balance, December 31st, 1880	04	
	$9,587 50	$9,587 50

Eastern Fountain.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$1,500 00
By amount received on account of sale of railing, &c		750 00
To amount paid on warrants of the Commissioners	$2,201 48	
To balance, December 31st, 1880	48 52	
	$2,250 00	$2,250 00

TABLE F—Concluded.

Expenditures and appropriations on account of Public Squares.

	Dr.	Cr.
Harlem Square	$2,909 47	$3,000 00
Mount Vernon Squares	1,000 00	1,000 00
Eutaw Squares, 1st division	2,500 00	2,500 00
Madison Square	3,498 92	3,500 00
Lafayette Square	1,200 00	1,200 00
Franklin Square	1,200 00	1,200 00
Jackson Square	850 00	850 00
Union Square	1,500 00	1,500 00
Park Place Squares	850 00	850 00
Perkins Spring Square	3,352 00	3,352 00
Baker Circle	100 00	100 00
Eutaw Squares, 2d division	749 66	750 00
Prospect Square	59 20	60 00
Johnston Square	2,500 00	2,500 00
Balance, December 31st, 1880.	2 75	
	$22,362 00	$22,362 00

TABLE G.

Health.

	Dr.	Cr.
By appropriations, Ordinance No. 62, 1880, as follows:		
For General Health		$10,500 00
" Salaries		17,700 00
" cleaning cess-pools of Public Schools for 1880		3,000 00
" payment of deficiency bills of 1879, on account of cleaning cess-pools of Public Schools.		239 50
To amount paid on warrants of the Commissioner of Health	$30,639 50	
To amount transferred from the account for cleaning cess-pools of Public Schools to nuisance account as per Ordinance No. 144, 1880	800 00	
	$31,439 50	$31,439 50

TABLE G—Continued.

Cleaning Streets.

	Dr.	Cr.
By appropriations, as per Ordinance No. 62, 1880, as follows:		
For cleaning streets and removing garbage.....		$175,000 00
For contract for removal of garbage.....		13,500 00
By amount transferred from the account for building addition to Bayview Asylum, as per Ordinance No. 144, 1880.....		3,500 00
To amount paid on warrants of the Commissioner of Health	$192,000 00	
	$192,000 00	$192,000 00

TABLE G—Continued.

Nuisance and Sewers.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$6,000 00
By amount received from sundry parties, for expenditures by the Health Department, for abating nuisances		101 18
By amount transferred from the following accounts, as per Ordinance No. 144, 1880:		
Building addition to Bayview Asylum		1,000 00
Cleaning cess-pools of public schools		800 00
To amount paid on warrants of the Commissioner of Health.	$7,722 23	
To balance, December 31st, 1880	178 95	
	$7,901 18	$7,901 18

TABLE G—Continued.

Marine Hospital.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$15,000 00
By appropriation, Resolution No. 29, 1880, favor T. M. Green & Bro		74 39
By amount received from Marine Hospital fees		9,320 97
To amount paid on warrants of the Commissioner of Health	$15,069 08	
To balance, December 31st, 1880	9,326 28	
	$24,395 36	$24,395 36

Post Mortems.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$300 00
To amount paid on warrants of the Commissioner of Health	$150 00	
To balance, December 31st, 1880	150 00	
	$300 00	$300 00

TABLE G—Continued.

Expenditures and appropriations on account of the Harbor Board.

	Dr.	Cr.
Dredging, salaries, &c., Ordinance 62, 1880	$89,839 02	$90,000 00
Ice Boat F. C. Latrobe, Ordinance 62, 1880	5,989 99	8,000 00
Repairs of Wharves, Ordinance 62 1880	4,131 01	5,000 00
Maps of the Harbor, Resolution 131	490 00	500 00
Improvement of the Central Pier at Back Basin, Resolution 105, 1880.	4,274 60	4,300 00
Repairs to City Dock, Resolution 153, 1880	1,388 19	5,000 00
Balance, December 31st, 1880	6,687 19	
	$112,800 00	$112,800 00

City Collector.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$44,000 00
To amount paid for salaries and incidental expenses of the City Collector's Office and Appeal Tax Court	$43,982 25	
To balance, December 31st, 1880	17 75	
	$44,000 00	$44,000 00

TABLE G—Continued.

City Poor.

	Dr.	Cr.
By amount received from the City Collector on account of the tax levy		$140,971 25
By appropriation for Bayview Asylum, Ordinance No. 62, 1880		63,000 00
By amount received from board of inmates and resident students, sale of refuse, &c		1,767 40
Paid warrants of the Trustees of Bayview Asylum	$58,003 44	
By appropriation for the House of Refuge, Ordinance No. 62, 1880		20,000 00
Paid to House of Refuge	17,836 90	
By appropriation for House of Reformation and Instruction for Colored Children, Ordinance No. 62, 1880		15,000 00
Paid to House of Reformation and Instruction for Colored Children	15,000 00	
Amounts carried forward..	$90,840 34	$240,738 65

TABLE G—Continued.

	Dr.	Cr.
Amounts brought forward.	$90,840 34	$240,738 65
By appropriation for Dispensaries, Ordinance No. 62, 1880, as follows:		
Northeastern	600 00	600 00
Southern	600 00	600 00
Baltimore General	400 00	400 00
Baltimore Special	400 00	400 00
Northwestern	400 00	400 00
Eastern	400 00	400 00
Homœopathic Free	400 00	400 00
College of Physicians and Surgeons	400 00	400 00
University of Maryland	400 00	400 00
By appropriation for St. Mary's Industrial School, Ordinance No. 62, 1880		20,000 00
Paid St. Mary's Industrial School	20,000 00	
By appropriation for Mount Hope Retreat, Ordinance No. 62, 1880		10,500 00
Paid Mount Hope Retreat	10,500 00	
Amounts carried forward..	$125,340 34	$275,238 65

TABLE G—Continued.

	Dr.	Cr.
Amounts brought forward.	$125,340 34	$275,238 65
By appropriation for Deaf and Dumb, Ordinance No. 62, 1880		500 00
Paid for Deaf and Dumb	465 96	
By appropriation for Indigent Sick at Universities, Ordinance No. 62, 1880		9,000 00
Paid to University of Maryland	3,899 00	
Paid to Washington University	4,246 79	
By appropriation for Widows and Orphans of War of 1812, Ordinance No. 62, 1880		200 00
Paid to Widows and Orphans of War of 1812	200 00	
By appropriation for Old Defenders, War of 1812, Ordinance No. 62, 1880		300 00
Paid Old Defenders, War of 1812	300 00	
By appropriation for Maryland Hospital for the Insane, Ordinance No. 62, 1880		21,000 00
Paid to Maryland Hospital for the Insane	20,847 17	
	$155,299 26	$306,238 65

TABLE G—Continued.

Building Addition to Bayview Asylum.

	Dr.	Cr.
By appropriation, Ordinance No. 91, 1880		$20,000 00
To amount transferred to the Sesqui-Centennial Celebration account, as per Ordinance No. 142, 1880	$5,500 00	
To amount transferred to Cleaning Streets account, as per Ordinance No. 144, 1880	3,500 00	
To amount transferred to Nuisance account, as per Ordinance No. 144, 1880	1,000 00	
To amount transferred to Circuit Court account, as per Resolution No. 243, 1880	500 00	
To amount paid on the warrants of the Trustees of the Poor	200 00	
To balance, December 31st, 1880	9,300 00	
	$20,000 00	$20,000 00

TABLE G—Continued.

Sesqui-Centennial Celebration.

	Dr.	Cr.
By amount transferred from changing the grade of Belair avenue account, Ordinance No. 142, 1880.		$1,500 00
By amount transferred from building addition to Bayview Asylum account, Ordinance No. 142, 1880.		5,500 00
By amount transferred from Chatsworth Run Sewer account, Ordinance No. 142, 1880.....		3,000 00
To amount paid on the orders of the Mayor.....	$9,197 54	
To balance, December 31st, 1880...	802 46	
	$10,000 00	$10,000 00

TABLE G—Continued.

Dog Pound.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$1,500 00
By amount received for dead dogs		22 83
By amount received for dogs sold at auction		60 75
By amount received for dogs redeemed		9 00
To amount paid for dogs captured	$699 75	
" " " feed	17 30	
" " " fuel	29 75	
" " " ground rent	300 00	
" " " repairs	11 00	
" " " additional help	100 00	
To amount of redemption money remitted by the Mayor	2 75	
To balance, December 31st, 1880	432 03	
	$1,592 58	$1,592 58

TABLE G—Continued.

Mayoralty.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$2,000 00
By amount received from M. Y. Kidd, payment in error		1 60
To amount paid for incidental expenses of the Mayor's office	$1,999 08	
To balance, December 31st, 1880	2 52	
	$2,001 60	$2,001 60

TABLE G—Continued.

Sarah Ann Fowler's Estate.

	Dr.	Cr.
By balance, January 1st, 1880...		$1,271 30
By amount received from rent of house No. 131 West Biddle street.....		310 00
By amount received from the Board of Public School Commissioners.....		149 87
By amount received from sale of house No. 131 West Biddle street.....		3,125 00
To amount paid for ground rent, &c.....	60 75	
To amount paid auctioneers' commissions.....	114 96	
To amount paid the heirs of Sarah A. Fowler, as per chapter No. 389 of the Laws of Maryland of 1880.....	1,539 45	
To balance, December 31st, 1880	3,141 01	
	$4,856 17	$4,856 17

TABLE G—Continued.

Sale of City Property.

	Dr.	Cr.
By amount received, final payment on property S. W. corner Front and Centre streets		$930 42
By amount received in payment of property corner Green street and Carpenter alley		4,100 00
By amount received from sundry parties on account of sale of property, for the benefit of the Sinking Fund		199,341 64
To amount paid Commissioners of Finance	$197,675 84	
To amount paid auctioneers' commissions, advertising, &c	1,789 38	
To balance, December 31st, 1880	4,906 84	
	$204,372 06	$204,372 06

TABLE G—Continued.

Gasoline Lamps, Lamp Pillars and Lamps, and Repairs of Lamps.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$26,500 00
By amount received from sundry parties for injury to lamps		139 60
To amount paid on warrants of the General Superintendent of Lamps	$25,462 44	
To balance, December 31st, 1880	1,177 16	
	$26,639 60	$26,639 60

TABLE G—Continued.

City Council.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$52,000 00
By appropriation, Resolution No. 200, 1880, in favor of Jno. Cox		2,532 90
To amount paid to members	$31,110 71	
" " " clerks, &c	13,002 15	
" " " Jno. Cox	2,532 90	
" " " for printing and other expenses	7,428 85	
To balance, December 31st, 1880	458 29	
	$54,532 90	$54,532 90

City Librarian.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$6,000 00
By amount received for furnishing copies of official documents, &c		3 17
To amount paid on warrants of the City Librarian for stationery, &c.	$5,999 57	
To balance, December 31st, 1880	3 60	
	$6,003 17	6,003 17

TABLE G—Continued.

Tax Sales.

	Dr.	Cr.
To amount paid for purchase of property by the Mayor and City Council to secure taxes.....	$10,774 84	
By amount received from sundry parties for redemption of property previously sold.....		$13,629 43
To balance, December 31st, 1880.	2,854 59	
	$13,629 43	$13,629 43

State Police.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880.....		$590,000 00
To amount paid on warrants of the Board of Police Commissioners..	$583,382 45	
To balance, December 31st, 1880...	6,617 55	
	$590,000 00	$590,000 00
Received from the City Collector on account of the tax levy for the Police Department.....	$504,837 61	

TABLE G—Continued.

Taxes Refunded.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$8,000 00
To amount of taxes refunded to sundry parties, by order of the Appeal Tax Court	$7,971 05	
To balance, December 31st, 1880	28 95	
	$8,000 00	$8,000 00

Public Printing.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$2,500 00
By appropriation, Resolution No. 35, 1880, for printing report of the Commission on Education		82 00
By amount received from the City Commissioner		16 00
To amount paid for printing 500 copies of the report of the Commission on Education	$82 00	
To amount paid for advertising	1,698 05	
To balance, December 31st, 1880	817 95	
	$2,598 00	$2,598 00

TABLE G--Continued.

Fire Department.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$172,405 00
By amount received from sundry refuse, &c		357 60
To amount paid on warrants of the Fire Commissioners, for expenses of the Fire Department and the Police and Fire Alarm Telegraph.	$172,401 90	
To balance, December 31st, 1880	360 70	
	$172,762 60	$172,762 60

New Hook and Ladder Company.

	Dr.	Cr.
By appropriation, Ordinance No. 61, 1880		$15,600 00
To amount paid on warrants of the Fire Commissioners, for purchase and repairs of building, and for equipping new company	$15,577 08	
To balance, December 31st, 1880	22 92	
	$15,600 00	$15,600 00

TABLE G—Continued.

Public Schools.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$620,000 00
To amount paid on warrants of the Board of Public School Commissioners, on account of white schools	$554,784 18	
To amount paid on warrants of the Board of Public School Commissioners, on account of colored schools	62,368 46	
To balance, December 31st, 1880	2,847 36	
	$620,000 00	$620,000 00
Receipts from various sources on account of Public Schools:		
From the City Collector, on account of the tax levy	$366,518 38	
From the State, the city's proportion of the State tax	147,303 99	
From J. F. Plummer, executor	129 59	
From H. M. Cowles, secretary, for use of books, &c	46,162 90	
	$560,114 86	

TABLE G—Continued.

Elections.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$8,000 00
By amount received from a judge of election, paid in error		2 00
To amount paid for per diem of judges and clerks, room rent, advertising, stationery, &c	$7,379 78	
To balance, December 31st, 1880	622 22	
	$8,002 00	$8,002 00

Supervisors of Elections.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$2,000 00
To amount paid to clerk	$499 96	
" " " messenger	50 00	
" " for advertising	1,305 66	
To amount paid for incidental expenses	50 27	
To balance, December 31st, 1880	94 11	
	$2,000 00	$2,000 00

TABLE G—Continued.

Special Appropriations.

	Dr.	Cr.
Favor of S. Janowitz, Resolution No. 244, 1879.....	$50 00	$50 00
" W. L. Stork, Resolution No. 19, 1880.....	89 46	89 46
" E. J. Auld, Resolution No. 46, 1880.....	30 33	30 33
" J. M. Watts, Resolution No. 77, 1880.....	15 78	16 10
" H. F. Meyer, Resolution No. 198, 1880.....	125 00	125 00
" C. J. Meyer, Resolution No. 198, 1880.....	60 00	60 00
" County Commissioners of Baltimore county, Resolution No. 180, 1880.....	100 00	100 00
" Daniel Constantine, Resolution No. 190, 1880.....	1,127 95	1,127 95
" Hopkins & Bro., Resolution No. 207, 1880..	516 32	516 32
Amounts carried forward.....	$2,114 84	$2,115 16

TABLE G—Concluded.

	Dr.	Cr.
Amounts brought forward.....	$2,114 84	$2,115 16
Favor of Powell Bros., Resolution No. 207, 1880....	506 92	506 92
" F. T. Boggs & Bro., Resolution No. 207, 1880.	77 40	77 40
" W. D. Lewis, Resolution No. 207, 1880....	114 96	114 96
" J. M. Fosque, Jr., Resolution No. 207, 1880..	547 18	547 18
" J. C. Boggs & Co., Resolution No. 207, 1880.	276 20	276 20
" Finney & Bro., Resolution No. 207, 1880....	737 12	737 12
" W. R. Lewis & Sons, Resolution No. 207, 1880.....	263 34	263 34
" F. J. Brown, attorney, for costs in 32 wharfage cases, Resolution No. 207, 1880.....	19 20	19 20
" Hollins McKim and others, Resolution No. 215, 1880.....	439 18	439 18
Balance, December 31st, 1880.....	32	
	$5,096 66	$5,096 66

TABLE H.

City Commissioner.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$9,525 00
To amount paid for salaries	$9,000 00	
" " livery	500 00	
To amount paid for incidental expenses	16 50	
To balance, December 31st, 1880	8 50	
	$9,525 00	$9,525 00

Repairs of Sewers.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$12,000 00
By amount received for permits to connect with sewers		655 10
To amount paid on warrants of the City Commissioner	$11,913 04	
To balance, December 31st, 1880	742 06	
	$12,655 10	$12,655 10

TABLE H—Continued.

Repairs of Paved Streets.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$72,500 00
By amount received from sale of old material, &c		22 14
To amount paid on warrants of the City Commissioner	$72,284 03	
To balance, December 31st, 1880	238 11	
	$72,522 14	$72,522 14

TABLE H—Continued.

Repairs of Bridges.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$3,500 00
By amount transferred from the following accounts, as per Resolution No. 226, 1880:		
Baltimore Street Sewer		2,437 65
Improving streets at Marsh Market		380 06
Changing grade Caroline street.		1,066 66
Regrading Biddle street		689 72
To amount paid on warrants of the City Commissioner	$7,994 65	
To balance, December 31st, 1880	79 44	
	$8,074 09	$8,074 09

TABLE H—Continued.

Improvement of Jones Falls.

	Dr.	Cr.
To balance, January 1st, 1880.	$907,515 84	
To amount paid on warrants of the City Commissioner.	468,517 27	
To amount paid for damages and expenses under the award by the Commissioners for Opening Streets.....	37,435 45	
By amount received from sale of old material.....		$1,050 62
By balance, December 31st, 1880.....		1,412,417 94
	$1,413,468 56	$1,413,468 56

TABLE H—Continued.

Baltimore Street Sewer.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880.....		$10,000 00
To amount paid on warrants of the City Commissioner.	$6,710 65	
To amount transferred to the account for repairs of bridges, as per Resolution No. 226, 1880.....	2,437 65	
To balance, December 31st, 1880.....	851 70	
	$10,000 00	$10,000 00

TABLE H—Continued.

Recurbing Pleasant Street.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880.....		$200 00
To amount paid on warrants of the City Commissioner.....	$50 70	
To amount transferred to the account for removing trees from Courtland and Saratoga streets, as per Resolution No. 247, 1880..	125 00	
To balance, December 31st, 1880...	24 30	
	$200 00	$200 00

Improving Streets in the Vicinity of Marsh Market.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880.....		$3,800 00
To amount paid on warrants of the City Commissioner.....	$3,419 94	
To amount transferred to the account for repairs to bridges, as per Resolution No. 226, of 1880.	380 06	
	$3,800 00	$3,800 00

TABLE II—Continued.

Chatsworth Run Sewer.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$23,000 00
To amount paid on warrants of the City Commissioner	$283 77	
To amount transferred to the account for Sesqui-Centennial Celebration, as per Ordinance No. 142, 1880	3,000 00	
To balance, December 31st, 1880	19,716 23	
	$23,000 00	$23,000 00

Light Street Bridge.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$17,500 00
By appropriation, Resolution No. 204, 1880		1,000 00
To amount of the city's proportion for purchase of Light street bridge	$17,500 00	
To amount paid on warrants of the City Commissioner	1,000 00	
	$18,500 00	$18,500 00

TABLE H—Continued.

Changing Grade of Caroline Street.

	Dr.	Cr.
By appropriation, Ordinance No. 52, 1880		$7,000 00
To amount paid on warrants of the City Commissioner	$5,433 34	
To amount transferred to the account for repairs of bridges, as per Resolution No. 226, 1880	1,066 66	
To amount transferred to the account for sewer in Jail yard, as per Resolution No. 193, 1880	500 00	
	$7,000 00	$7,000 00

Regrading Biddle Street.

	Dr.	Cr.
By appropriation, Ordinance No. 59, 1880		$2,500 00
To amount paid on warrants of the City Commissioner	$1,810 28	
To amount transferred to the account for repairs of bridges, as per Resolution No. 226, 1880	689 72	
	$2,500 00	$2,500 00

TABLE H--Continued.

Improvement of Harford Run.

	Dr.	Cr.
amount received, proceeds of the sale of stock		$40,000 00
To amount paid on warrants of the City Commissioner	$39,829 38	
To balance, December 31st, 1880	170 62	
	$40,000 00	$40,000 00

Changing Grade of Belair Avenue.

	Dr.	Cr.
By appropriation, Ordinance No. 134, 1880		$1,500 00
To amount transferred to the account for Sesqui-Centennial Celebration, as per Ordinance No. 142, 1880	$1,500 00	
	$1,500 00	1,500 000

TABLE H—Continued.

Sewer in Jail Yard.

	Dr.	Cr.
By amount transferred from the account for changing the grade of Caroline street, as per Resolution No. 193, approved May 25, 1880.		$500 00
To amount paid on warrants of the City Commissioner.....	$500 00	
	$500 00	$500 00

Removing Trees from Courtland and Saratoga Streets.

	Dr.	Cr.
By amount transferred from the account for recurbing Pleasant street as per Resolution No. 247, approved October 22, 1880.....		$125 00
To amount paid on warrants of the City Commissioner.....	$125 00	
	$125 00	$125 00

TABLE H—Continued.

Expenditures and Appropriations, City Commissioner's Department.

	Dr.	Cr.
Repairs of unpaved streets, Ordinance No. 62, 1880	$1,812 79	$2,000 00
Paving cross streets, Ordinance No. 62, 1880	14,974 03	15,000 00
Flag and stepping stones, Ordinance No. 62, 1880	9,965 02	10,000 00
Iron plates, Ordinance No. 62, 1880.	3,952 30	4,000 00
Repaving streets, Ordinance No. 62, 1880	2,490 20	3,000 00
Paving in front of city property, Ordinance No. 62, 1880	707 04	800 00
Harford run sewer, Ordinance No. 62, 1880	11,083 99	24,196 42
Regrading Chase street, Ordinance No. 62, 1880	1,631 92	1,700 00
Bloom street sewer, Ordinance No. 62, 1880	148 80	200 00
Carey street sewer, Ordinance No. 62, 1880	94 28	150 00
Repairs of Washington road, Ordinance No. 62, 1880	497 50	500 00
Amounts carried forward	$47,357 87	$61,546 42

TABLE H—Continued.

	Dr.	Cr.
Amounts brought forward.....	$47,357 87	$61,546 42
Inlets to sewer on North avenue, Ordinances Nos. 62 and 96, 1880..	4,829 85	7,350 00
Franklin street sewer, Ordinance No. 62, 1880.....	8,716 74	13,000 00
Shelling Point lane, Ordinance No. 62, 1880.....	149 95	150 00
Shelling Ridgley street, Ordinance No. 62, 1880.....	150 00	150 00
Fremont street sewer, Ordinance No. 62, 1880.....	10,083 12	14,005 25
Traps to the inlets of Broadway sewer, Ordinance No. 62, 1880...	2,060 96	2,400 00
Changing the grade of Hoffman street, Resolution No. 119, 1880..	970 24	1,000 00
Shelling Mine Bank lane, Resolution No. 130, 1880.....	140 90	150 00
Defining lines in Belair market, Resolution No. 132, 1880.....	4 50	50 00
Recurbing Courtland street, Resolution No. 143, 1880.....	174 28	174 28
Changing flow of water at Carrollton avenue and Franklin street, Resolution No. 141, 1880.....	325 12	325 12
Recurbing Saratoga street, Resolution No. 127, 1880.....	108 85	108 85
Balance, December 31st, 1880.....	25,337 54	
	$100,409 92	$100,409 92

TABLE II—Continued.

Expenditures and Appropriations, Inspector of Buildings Department.

	Dr.	Cr.
Building Male Grammar and Primary school No. 1, Ordinance No. 62, 1880	$14,815 75	$14,850 00
Repairs of public school buildings, Ordinance No. 62, 1880	24,997 15	25,000 00
Repairs of city property, Ordinance No. 62, 1880	5,971 94	6,000 00
Additional accommodations for the City Library, Resolution No. 125, 1880	549 95	550 00
Building Grammar school No. 7, Ordinance No. 56, 1880	7,020 00	7,500 00
Repairs to clock in No. 6 Engine House, Ordinance No. 62, 1880	50 00	50 00
Paving at No. 13 Engine House, Resolution No. 216, 1880	50 00	50 00
Repairs to City Hall, Ordinance No. 62, 1880	4,000 00	4,000 00
Salaries, Ordinance No. 62, 1880	3,000 00	3,000 00
Incidental expenses, Ordinance No. 62, 1880	38 27	50 00
Balance, December 31st, 1880	553 94	
	$61,050 00	$61,050 00

TABLE H—Continued.

Expenditures and Appropriations for Sundry Accounts.

	Dr.	Cr.
General expense, Ordinance No. 62, 1880	$1,214 30	$2,000 00
Court House and Record Office, expense of, Ordinance No. 62, 1880.	4,690 16	4,745 80
Old Masonic Hall, expense of, Ordinance No. 62, 1880	3,198 13	3,203 09
Old Masonic Hall, for removing railing, &c., Resolution No. 145, 1880	255 00	300 00
Lamplighters' salaries, Ordinance No. 62, 1880	43,438 85	43,500 00
Salaries of sundry officers, Ordinance No. 62, 1880	66,000 00	66,000 00
Gas, Ordinance No. 62, 1880	119,999 95	120,000 00
Commissioners for Opening Streets, incidental expenses, Ordinance No. 62, 1880	148 86	150 00
Superintendent of the City Hall, Ordinance No. 62, 1880	14,985 59	15,000 00
Amounts carried forward	$253,930 84	$254,898 89

TABLE H—Continued.

	Dr.	Cr.
Amounts brought forward.....	$253,930 84	$254,898 89
Insurance of Bayview Asylum, Ordinance No. 62, 1880	855 00	862 50
Coroners' salaries, Ordinance No. 62, 1880.....	2,400 00	2,400 00
Transportation to the House of Correction, Ordinance No. 62, 1880..	205 20	300 00
Carrying poor to homes, Ordinance No. 62, 1880.....	790 45	800 00
Ice Boat Maryland, Ordinance No. 62, 1880.....	10,000 00	10,000 00
State tax on city loans, Ordinance No. 62, 1880.....	9,739 69	9,900 00
Condemnation of Federal Hall for a public park, Ordinance No. 62, 1880.....	5,279 50	9,003 20
Purchase of lot corner Green street and Carpenter alley, Ordinance No. 62, 1880.....	10,000 00	10,000 00
Purchase of lots on North street for United States' Post Office, Ordinance No. 62, 1880.....	9,824 82	10,000 00
Ringing mechanics' bells on Caroline street and Federal Hill, Ordinance No. 62, 1880.....	200 00	200 00
Amounts carried forward.....	$303,225 50	$308,364 59

TABLE H—Concluded.

	Dr.	Cr.
Amounts brought forward.....	$303,225 50	$308,364 59
General Superintendent of Lamps, for livery, Ordinance No. 62, 1880.	200 00	200 00
Examiner of Titles, for completing work in office of, Resolution No. 187, 1880.....	500 00	500 00
Repairs to Office of Insolvent Debtors, Resolution No. 146, 1880.....	200 00	200 00
Fire alarm box corner Ostend and Warner streets, Resolution No. 212, 1880.....	195 16	230 00
Inspector of Gas, incidental expenses, Ordinance No. 62, 1880.....	75 00	75 00
Fire alarm box corner Portland and Green streets, Resolution No. 212, 1880	195 16	200 00
Repairs to clock on Maryland Institute, Resolution No. 81, 1880.....	75 00	75 00
Balance, December 31st, 1880.....	5,178 77	
	$309,844 59	$309,844 59

TABLE I.

Opening Eden Street.

	Dr.	Cr.
To balance, January 1st, 1880....	$7,533 93	
To amount paid for damages....	2,771 75	
By amount received for benefits		$5,192 75
By amount received for ground and material sold.....		3,848 98
By balance, December 31st, 1880		1,263 95
	$10,305 68	$10,305 68

Opening Porter Street.

	Dr.	Cr.
By balance, January 1st, 1880....		$5,579 53
To amount paid for damages....	210 25	
To balance, December 31st, 1880	$5,369 28	
	$5,579 53	$5,579 53

TABLE I—Continued.

Opening Decatur Street.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$6,600 00
To amount paid for damages....	$6,600 00	
	$6,600 00	$6,600 00

Opening Ensor Street.

	Dr.	Cr.
By balance, January 1st, 1880....		$1,014 62
By appropriation, Ordinance No. 62, 1880		288 09
By amount received for benefits		3,200 66
To amount paid for damages....	$2,801 87	
To balance, December 31st, 1880	1,701 50	
	$4,503 37	$4,503 37

TABLE I—Continued.

Opening Bond Street.

	Dr.	Cr.
By balance, January 1st, 1880....		$2,533 88
By amount received for benefits		14,974 10
To amount paid for damages....	$17,259 33	
To balance, December 31st, 1880	248 65	
	$17,507 98	$17,507 98

Opening Presstman Street.

	Dr.	Cr.
To balance, January 1st, 1880....	$997 29	
To amount paid for damages....	95 70	
By amount received for benefits		$304 40
By balance, December 31st, 1880		788 59
	$1,092 99	$1,092 99

TABLE I—Continued.

Opening Hull Street.

	Dr.	Cr.
To balance, January 1st, 1880....	$26 18	
By amount received for benefits		$97 68
To balance, December 31st, 1880	71 50	
	$97 68	$97 68

Opening Wilcox Street.

	Dr.	Cr.
To balance, January 1st, 1880....	$205 38	
By amount received for benefits		$143 69
By balance, December 31st, 1880		61 69
	$205 38	$205 38

TABLE I—Continued.

Opening Lexington Street.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$549 23
To amount refunded for benefits previously paid	$ 75	
To balance, December 31st, 1880	548 48	
	$549 23	$549 23

Opening McHenry Street.

	Dr.	Cr.
To balance, January 1st, 1880	$2 41	
By amount received for benefits		$107 08
To balance, December 31st, 1880	104 67	
	$107 08	$107 08

TABLE I—Continued.

Opening McKim Street.

	Dr.	Cr.
By balance, January 1st, 1880....		$4,424 04
By amount received for benefits		2,123 10
To balance, December 31st, 1880	$6,547 14	
	$6,547 14	$6,547 14

Opening North Street.

	Dr.	Cr.
To balance, January 1st, 1880 ...	$433 63	
By appropriation, Ordinance No. 62, 1880.....		$34 40
By amount received for benefits		232 38
By balance, December31st, 1880		166 85
	$433 63	$433 63

TABLE I—Continued.

Opening Franklin Street.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$184 48
To amount refunded for benefits previously paid	$81 92	
To balance, December 31st, 1880.	102 56	
	$184 48	$184 48

Opening Broadway.

	Dr.	Cr.
By balance, January 1st, 1880		$39,917 31
By amount received for benefits		55 865 45
By amount received for ground and material sold		1,535 00
To amount paid for damages	$98,314 03	
By balance, December 31st, 1880.		996 27
	$98,314 03	$98,314 03

TABLE I—Continued.

Opening Chew Street.

	Dr.	Cr.
By balance, January 1st, 1880.....		$44 66
By amount received for benefits ...		18 38
To balance, December 31st, 1880..	$63 04	
	$63 04	$63 04

Opening Biddle Street.

	Dr.	Cr.
By balance, January 1st, 1880.....		$860 43
By amount received for benefits....		$10,543 65
To amount paid for damages.....	$10,682 00	
To balance, December 31st, 1880..	722 08	
	$11,404 08	$11,404 08

TABLE I—Continued.

Opening Forrest Street.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$315 64
To amount refunded for benefits previously paid	$42 68	
To balance, December 31st, 1880	272 96	
	$315 64	$315 64

Opening Jones Street.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$199 59
To amount paid for surveys	$199 59	
	$199 59	$199 59

TABLE I—Continued.

Opening Caroline Street.

	Dr.	Cr.
By balance, January 1st, 1880....		$6,443 60
By amount received for benefits		19,202 86
By amount received for ground and material sold.....		2,355 00
To amount paid for damages.....	$28,002 76	
By balance, December 31st, 1880		1 30
	$28,002 76	$28,002 76

Opening Oliver Street.

	Dr.	Cr.
By balance, January 1st, 1880....		$9,853 15
By amount received for benefits		12,980 74
To amount paid for damages....	$21,443 08	
To balance, December 31st, 1880	1,390 81	
	$22,833 89	$22,833 89

TABLE I—Continued.

Opening Eager Street.

	Dr.	Cr.
To balance, January 1st, 1880....	$105 60	
By appropriation, Ordinance No. 62, 1880.....		$284 35
By amount received for benefits		3 00
To balance, December 31st, 1880	181 75	
	$287 35	$287 35

Opening Marshall Street.

	Dr.	Cr.
By amount received for benefits		$248 78
To amount paid for advertising and surveys.....	$132 07	
To balance, December 31st, 1880	116 71	
	$248 78	$248 78

TABLE I—Continued.

Widening Eutaw Street.

	Dr.	Cr.
By balance, January 1st, 1880....		$31,236 17
By amount received for benefits		35,895 33
By amount received for ground sold.....		555 00
To amount paid for damages....	$65,017 06	
To balance, December 31st, 1880	2,669 44	
	$67,686 50	$67,686 50

Closing School House Lane.

	Dr.	Cr.
To balance, January 1st, 1880....	$117 44	
To amount paid for damages....	1,585 00	
By amount received for benefits		$1,902 22
To balance, December 31st, 1880	199 78	
	$1,902 22	$1,902 22

TABLE I--Continued.

Opening Addison Alley.

	Dr.	Cr
To balance, January 1st, 1880.....	$2 25	
To amount paid for damages.....	100 00	
By amount received for benefits....		$62 50
By balance, December 31st, 1880...		39 75
	$102 25	$102 25

Opening Wilmer Alley.

	Dr.	Cr.
By balance, January 1st, 1880.....		$99 38
By amount received for benefits....		980 95
To amount paid for damages.....	$993 33	
To balance, December 31st, 1880...	87 00	
	$1,080 33	$1,080 33

TABLE I—Continued.

Opening Vincent Alley.

	Dr.	Cr.
To balance, January 1st, 1880.....	$179 85	
To amount paid for damages.....	3,848 94	
By appropriation, Ordinance No. 62, 1880.....		$212 23
By amount received for benefits....		4,054 87
To balance, December 31st, 1880...	238 31	
	$4,267 10	$4,267 10

Opening Robert Street.

	Dr.	Cr.
To balance, January 1st, 1880.....	$363 13	
By amount received for benefits....		$3,036 36
To balance, December 31st, 1880...	2,673 23	
	$3,036 36	$3,036 36

TABLE I—Continued.

Condemnation for Chatsworth Run Sewer.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$6,555 23
By amount received for benefits		2,322 62
To amount paid for advertising and survey	$349 93	
By amount received for damages	8,439 42	
To balance, December 31st, 1880	88 50	
	$8,877 85	$8,877 85

Opening Truxton Street.

	Dr.	Cr.
To balance, January 1st, 1880	$284 23	
To amount paid for damages	4,315 00	
By amount received for benefits		$3,014 26
By appropriation, Ordinance No. 62, 1880		1,642 59
To balance, December 31st, 1880	57 62	
	$4,656 85	$4,656 85

TABLE I—Continued.

Opening Wolf Street.

	Dr.	Cr.
To balance, January 1st, 1880.....	$883 17	
By amount received for benefits....		$2,421 59
To balance, December 31st, 1880...	1,538 42	
	$2,421 59	$2,421 59

Opening Chase Street.

	Dr.	Cr.
By amount received for benefits....		$789 87
To amount paid for advertising and survey	$482 45	
To balance, December 31st, 1880...	307 42	
	$789 87	$789 87

TABLE I—Continued.

Opening Patterson Park Avenue.

	Dr.	Cr.
To amount paid for advertising, surveys and auctioneer's commissions.	$1,502 95	
By amount received for benefits....		$39 87
By balance, December 31st, 1880...		1,463 08
	$1,502 95	$1,502 95

Opening Grove Alley.

	Dr.	Cr.
By amount received for sale of ground.....		$125 00
To balance, December 31st, 1880...	$125 00	
	$125 00	$125 00

TABLE I—Continued.

Opening Patapsco Street.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$250 68
To amount paid for survey	$250 68	
	$250 68	$250 68

Opening Collington Avenue.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$669 33
To amount paid for survey	$669 33	
	$669 33	$669 33

TABLE I—Continued.

Opening Burke Street.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$733 52
To amount paid for survey	$733 52	
	$733 52	$733 52

Opening Race Street.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$352 30
To amount paid for survey	$352 30	
	$352 30	$352 30

TABLE I—Continued.

Opening Cannon Street.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$762 34
To amount paid for survey	762 34	
	$762 34	$762 34

Opening Douglass Street.

	Dr.	Cr.
To amount paid for advertising, surveys and auctioneers' commissions	$3,421 03	
By appropriation, Ordinance No. 62, 1880		$1,794 71
By balance, December 31st, 1880		1,626 32
	$3,421 03	$3,421 03

TABLE I—Continued.

Opening McElderry Street.

	Dr.	Cr.
To amount paid for advertising and survey.....	$649 67	
By amount received for benefits		$12 56
By balance, December 31st, 1880		637 11
	$649 67	$649 67

Closing Oak Street.

	Dr.	Cr.
By amount received for benefits		$236 17
To amount paid for advertising and survey.....	$165 67	
To balance, December 31st, 1880	70 50	
	$236 17	$236 17

TABLE I—Continued.

Opening Cathedral Street.

	Dr.	Cr.
To amount paid for advertising, surveys and auctioneers' commissions	$1,156 88	
By amount received for benefits		$4 50
By balance, December 31st, 1880		1,152 38
	$1,156 88	$1,156 88

Amount paid for Surveys, Advertising and Auctioneers' Commissions for sundry streets.

	Dr.	Cr.
John street, opening	$892 96	
A 20-feet alley, between Edmondson and Harlem avenues, closing	181 00	
Rutter alley, opening	100 83	
Sharp street, opening	209 50	
Luzerne street, opening	476 54	
Hanson Mill Road, closing	241 71	
Gold street, opening	441 37	
Lawson lane, opening	138 65	
Hargrove alley, opening	69 40	
Balance, December 31st, 1880		$2,751 96
	$2,751 96	$2,751 96

TABLE I—Continued.

Paving Fayette Street.

	Dr.	Cr.
To balance, January 1st, 1880....	$879 92	
To amount paid for paving.....	4,693 44	
By appropriation, Ordinance No. 62, 1880.....		$2,773 36
By amount received from the City Collector.....		771 97
By balance, December 31st, 1880		2,028 03
	$5,573 36	$5,573 36

Paving Pearl Street.

	Dr.	Cr.
To balance, January 1st, 1880....	$1,319 33	
To amount refunded for paving assessments previously paid...	398 61	
By appropriation, Resolution No. 164, 1880.....		$457 84
By amount received from the City Collector.....		221 26
By balance, December 31st, 1880		1,038 84
	$1,717 94	$1,717 94

TABLE I—Continued.

Paving Second Street.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$699 74
To amount refunded for paving assessments previously paid...	$322 35	
To balance, December 31st, 1880	377 39	
	$699 74	$699 74

Paving South Street.

	Dr.	Cr.
By appropriation, Ordinance No. 62, 1880		$76 64
To amount refunded for paving assessments previously paid...	$76 64	
	$76 64	$76 64

TABLE I—Continued.

Paving St. Paul Street.

	Dr.	Cr.
By balance, January 1st, 1880....		$114 52
By appropriation, Ordinance No. 62, 1880.....		$1,354 53
By amount received from the City Collector.....		986 04
To amount paid for paving	$1,354 53	
To amount refunded for paving assessments previously paid..	114 52	
To balance, December 31st, 1880	986 04	
	$2,455 09	$2,455 09

Paving West Street.

	Dr.	Cr.
By appropriation, Resolution No. 211, 1880.....		$628 93
By appropriation, Resolution No. 225, 1880.....		76 48
To amount refunded for paving assessments previously paid...	$659 55	
To balance, December 31st, 1880	45 86	
	$705 41	$705 41

TABLE I—Continued.

Amount paid for paving streets, and also the amount received from the City Collector, payment by sundry parties.

	Dr.	Cr.
Fourth street		$1,296 66
Chester street		466 28
Federal street		358 17
Lemmon street		4 36
Stricker street		171 15
Hampstead street		286 47
Haubert street		327 11
Sterrett street	$1,606 94	695 87
Hoffman street	4,834 89	4,142 89
Broadway	1,561 87	
Ostend street	473 98	177 80
McElderry street	254 65	1,043 14
Baltimore street		226 72
Castle street		751 19
Dover street		6 05
Foster alley		158 59
Hammond alley		110 57
Oliver street	633 64	
Lombard street		242 86
Eager street		463 84
Amounts carried forward...	$9,365 97	$10,929 72

TABLE I—Continued.

	Dr.	Cr.
Amounts brought forward.....	$9,365 97	$10,929 72
West Falls avenue.....	1,567 51	
Randall street..... ..		2,146 78
Bethel street.....	78 97	
Durst alley.....		74 18
King street.....	26 25	
Jackson street..... .	923 99	1,003 69
Light street.....	42 18	
Canton avenue.....	39 33	247 40
Vincent alley.....	48 05	
Biddle street.....		1 80
Pitcher street.....	1,653 33	995 00
Mason alley.....		202 83
Covington street.....	70 73	21 11
Lancaster street.....	566 15	
Argyle avenue.....	93 17	760 48
Baker street.....		75 02
Courtland street.....	94 73	5 71
Townsend street.....	3,321 85	1,247 38
Washington street..... ..	4,854 82	4 853 50
Lanvale street.....	2,923 19	2,041 44
Jackson court.....	147 67	29 66
Bounty lane.....	271 64	291 60
Amounts carried forward.....	$26,089 53	$24,927 30

TABLE I--Concluded.

	Dr.	Cr.
Amounts brought forward.....	$26,089 53	$24,927 30
Exeter street.....	485 88	
Pratt street.....	38,638 13	754 87
Calvert street.....	2,899 13	2,893 56
Saratoga street.....	3,521 40	111 50
Mount street.....	978 20	551 18
An alley 15 feet wide, from Presstman street to Laurens street.....	528 88	290 07
Wilkens avenue.....		412 49
North avenue.....	324 67	24,596 46
North street.....	1,807 86	2,933 14
Central avenue.....	1,470 10	1,693 98
O'Donnell street.....		287 23
Henry street.....		688 95
Gilmor street.....		1,219 48
Ann street.....		127 52
Plum alley.....		399 10
Cole street.....		1,457 79
Interest on paving account.....		2,473 99
	$76,743 78	$65,818 61

ANNUAL REPORT

OF THE

INSPECTOR OF BUILDINGS,

TO THE

MAYOR AND CITY COUNCIL OF BALTIMORE,

FOR THE

FISCAL YEAR ENDING DECEMBER 31st, 1880.

REPORT.

OFFICE INSPECTOR OF BUILDINGS—CITY HALL,

BALTIMORE, January 1, 1881.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

I most respectfully submit for your consideration the annual report of this Department of the City Government, showing its operations and expenditures during the fiscal year ending December 31st, 1880, as required by ordinance.

CONSTRUCTION OF NEW SCHOOL BUILDINGS.

During the past year 1880, one new school building has been completed, and another is in progress of construction.

The new building for Male Grammar and Primary School No. 1, situated on the northeast corner of Fayette and Green streets, which was provided for by Ordinance No. 23, approved April 3d, 1879, was completed, accepted and passed over to the custody of the School Commissioners last August, 26th. The plan of this building is a right angled parallelogram, binding on

the north side of Fayette street sixty-one feet; and on the east side of Green street ninety-six feet seven inches: adjoining this, on the east side, is a rectangular wing, binding on Fayette street twenty-two feet by thirty-two feet deep.

Both the main and wing buildings are three stories high, with a deep and spacious cellar under the entire main building. The first story is fifteen feet six inches high in the clear of floor and ceiling; and the second and third stories are, each, fifteen feet high in the clear of floor and ceiling. The building is entered on two fronts, one at the northwest angle on Green street, the other in the wing at the southeast angle on Fayette street. Both entrances have spacious vestibules communicating with the corridors and class-rooms, and thence continuing by passages to large exit doors opening on the yard at the east side.

From each of these vestibules the second and third stories are reached by an easy and roomy platform stairway: so that the ingress and egress of this building is ample and commodious, being situated at two points the most distant from each other, and having four outlets by which it may be voided in cases of emergency.

The first story contains a principal's room, thirty-seven feet four inches by thirty-one feet eight inches in area; six class-rooms, each twenty-one feet by twenty-five feet in area; and a reception, located in the wing, thirteen feet by seventeen feet in area.

The second and third stories each contain a principal's room and six class-rooms, of the same dimensions

and plan as those of the first story; also hat and cloak rooms of sufficient capacity for the accommodation of the pupils. The building, therefore, contains three principal rooms and eighteen class-rooms, giving it ample capacity to seat fourteen hundred pupils.

All necessary flues have been built in the walls for the purpose of distributing heat and air throughout the entire building; and special attention has been paid to the method of ventilation, by the construction of two large air stacks, and the building of ducts, and the placing of registers in their proper positions. From the foundation to the top of the first floor the walls are built of stone, the fronts being faced with Jones' Falls quarry, laid in broken range, capped with a granite base course, extending along the fronts on Green street, Fayette street, and the east return of stair-wing. Upon this stone base the brick walls are erected, the fronts of which on Green and Fayette streets, and the return of the staircase wing, are faced with dust-pressed bricks, well laid; the balance of the walls are built of good hard burned bricks, well laid with proper bed and bond throughout. The general appearance of the design is attractive, the combination of the details presenting a pleasing and agreeable effect. The fronts are well relieved by the dressings of the entrance doors, and the window sills, all made of clear Maryland marble. The whole crowned by a neat wood modillion cornice, surmounted by pediments on the Fayette street front. This building has been erected and completed according to the true intent and spirit of the plans and specifications; all the materials have been furnished of a good and suitable quality, and the work-

manship throughout has been done in a good and workmanlike manner; and it may be considered, in its construction, to compare favorably with any other public school building in the city of Baltimore.

The new school building for Grammar School No. 7, the erection of which was authorized and provided for by Ordinance No. 56, approved April 16th, 1880, has been put under contract, and is now so far advanced that it may be completed (weather permitting) by the first of March next.

This building stands on a lot situated on the southeast corner of Eastern avenue and Burke street. The lot fronts on the south side of Eastern avenue one hundred feet, and extends back a depth, on the east side of Burke street, one hundred and forty feet, to a ten foot alley in the rear. The situation is well adapted for light, air and recreation, admitting roomy yards on each side of the building, and having the open grounds of Patterson Park in front.

REPAIRS OF PUBLIC SCHOOL HOUSES.

During the past year due attention has been paid to the needful repairs of the various school buildings, to the extent of the amount appropriated for their use. The following buildings, owing to their condition, received the more considerable repairs than others not enumerated in this report.

BALTIMORE CITY COLLEGE.

In this building the furnace flues were found so defective in construction as to endanger the building by

fire. It became necessary, therefore, to cut them out, and rebuild them with cement tubes cased in the walls, from the foundation to top out.

To improve the ventilation, which was very imperfect, four ventilating cupolas were constructed—one over each of the four open staircases, the shafts of which are cased up from the ceilings of the roof, through and above the roof, and crowned with an automatic fan apparatus, which it is thought will operate efficiently in drawing up and out all the foul air generated in the building. Other incidental repairs were made as the occasions required, to keep the building in a fair condition, but it now stands greatly in need of paint outside and inside.

EASTERN FEMALE HIGH SCHOOL, AISQUITH STREET.

All the necessary repairs were made to this building during the year to keep it up to a good standard. It was painted two good coats on the outside, and should have one good coat on the inside. The roof received one good coat of metallic paint.

No. 2 MALE AND FEMALE GRAMMAR SCHOOL HOUSE, S. W. CORNER BROADWAY AND BANK STREET.

This building received such repairs from time to time as were necessary to keep it in order. A new fence was constructed on the line of the lot binding on Broadway; wire screens were made and fitted to the basement windows, and the roof was painted with one good coat of metallic paint. Its condition

may be said to be medium, but it should be painted on the outside.

No. 3 MALE AND FEMALE PRIMARY SCHOOL HOUSE, N. E. CORNER GOUGH AND STILES STREETS.

In this building the ceilings of two large class-rooms having become loose and dangerous, were knocked off and replastered; the fences, pavement and spouting were thoroughly repaired, and the building was painted two coats outside and inside, and is now considered to be in a fair condition.

No. 3 MALE AND FEMALE GRAMMAR AND PRIMARY SCHOOL HOUSE, HIGH STREET.

On the south line of the lot upon which this building stands, a new fence was built. Other repairs of a desultory character were done to a considerable extent, and the roof was painted one good coat of metallic paint. The building should be painted outside and inside.

No. 4 MALE AND FEMALE GRAMMAR SCHOOL HOUSE, SHARP STREET, NEAR MONTGOMERY.

This building received all the necessary repairs which it required for its preservation, and the comfort of its occupants, during the year. It was painted two good coats on the outside, and one coat on the inside, and it may be pronounced in a fair condition.

No. 4 MALE AND FEMALE PRIMARY SCHOOL HOUSE, N. E. CORNER HANOVER AND LEE STREETS.

All the window frames and sash of the second story of this old building being constructed of such a design or style as to preclude a convenient arrangement for light and ventilation, were removed, and new frames and sash on a modern principle were introduced in their places. Considerable other repairs were made to put the building in a comfortable state, and the roof was painted one good coat of metallic paint. It should be painted on the inside, and the rough casting repaired, and then painted on the outside, when its condition would be fair.

No. 5 MALE AND FEMALE GRAMMAR SCHOOL HOUSE, S. W. CORNER GREENMOUNT AVENUE AND EAGER STREET.

Considerable repairs were made to this building. New fences were built on the lines of the lot binding on Forrest street and Eager street; the pavements were put in thorough repair, and its condition is now comfortable; but it stands greatly in need of paint outside and inside.

No. 6 MALE AND FEMALE GRAMMAR SCHOOL HOUSE, DIVISION STREET.

This building received all necessary repairs, from time to time, to keep it in a good state of preservation; the roof was painted with a good coat of metallic paint, but it now requires paint on all the wood work outside and inside.

No. 7 MALE AND FEMALE GRAMMAR SCHOOL HOUSE, S. E. CORNER CHESAPEAKE AND HUDSON STREETS.

This old building received extensive repairs. Fences were rebuilt, partitions were changed in their positions for the better arrangement of the classes; and it was painted outside and inside; but to put this building in good order, it must have new floors laid in the first and second stories, and new joist set in the first story, which, for want of funds, could not be done during the time the building was undergoing general repairs.

No. 7 MALE AND FEMALE PRIMARY SCHOOL HOUSE, MULLIKIN STREET, NEAR AISQUITH.

This old building was thoroughly repaired. A vestibule was constructed at the entrance door on the east side, to protect the principal's class-room from the weather; the plastering was thoroughly pointed up; the pavements in the yard put in good order; and the building was painted two good coats on the outside and inside. Its standard is now fair.

No. 8 MALE AND FEMALE GRAMMAR SCHOOL HOUSE, HOLLINS STREET, NEAR FULTON.

This building received during the year constant attention to keep it in good tenantable order. A new fence was put up on the east side of the lot; the pavements of the yards were put in proper condition, and the plastering was repaired and pointed up. It received one good coat of paint on the outside, and should have one good coat on the inside to put it in a fair normal condition.

No. 8 MALE AND FEMALE PRIMARY SCHOOL HOUSE, CAROLINE STREET, NEAR LOMBARD STREET.

Considerable repairs were put on this old building from time to time, as the nature of the demands required, to keep it in a state of preservation; but to bring it up to a fair normal condition, it must have new floors laid in the first and second stories; also the roof must be re-shingled, and the building painted inside and outside.

No. 10 MALE AND FEMALE GRAMMAR SCHOOL HOUSE, S. E. CORNER WILLIAM AND WARREN STREETS.

Such repairs as were necessary to keep this building in a proper state of preservation, were put on it as occasions required. The tin roof was thoroughly examined and repaired; the interior wood-work was put in good order, and painted throughout one good coat of paint; and the pavements put in good repair. Its condition at present is considered fair.

No. 11 MALE AND FEMALE GRAMMAR SCHOOL HOUSE, N. W. CORNER JEFFERSON AND BOND STREETS.

In order to make this building comfortable, it was necessary to give it extensive repairs. The want of proper ventilation and light made it imperative to alter the position of window openings, and to add one extra window to a class-room in the N. W. corner of the second story. A new glass partition was constructed in the large room of second story occupied by the principal, in order to make better arrangements for the classes. The fences were put in thorough repair, and

the privy better ventilated by the erection of an air shaft. All necessary repairs to pavements were made; and this building would be in a fair condition if painted inside and outside, of which it stands greatly in need.

No. 11 MALE AND FEMALE PRIMARY SCHOOL HOUSE, N. E. CORNER PIERCE AND SCHROEDER STREETS.

This old building received such repairs from time to time as were necessary to keep it up to a standard of comfort. It was painted two coats on the outside and inside; and it is in a medium condition at present.

No. 12 MALE AND FEMALE PRIMARY SCHOOL HOUSE, S. W. CORNER BARRE AND WARNER STREETS.

All the necessary repairs were made to this building in answer to the various demands made during the past year. A partition was removed in the second story in order to enlarge a class room for the better accommodation of the pupils. The general condition of this building at present is fair; but it stands much in need of paint outside and inside, and the roof should be reshingled.

No. 13 MALE AND FEMALE GRAMMAR SCHOOL HOUSE, ASQUITH STREET, NEAR MULLIKIN.

Extensive repairs were put on this building, every part having been thoroughly examined and put in good order. It was painted outside and inside two good coats of paint; and its condition now is considered very fair.

No. 13 MALE AND FEMALE PRIMARY SCHOOL HOUSE, JEFFERSON STREET, NEAR CAROLINE.

This old building received considerable repairs to keep it in a comfortable condition, but it requires much more to put it in a proper state of efficiency. It should have new floors laid throughout, and it should be painted outside and inside, the wood work outside having been injured, long since, for want of it.

No. 14 MALE AND FEMALE PRIMARY SCHOOL HOUSE, EUTAW STREET, NEAR PRESTON.

Around the lot upon which this building stands, new fences were erected, and considerable other repairs were made upon the building, in order to make its condition comfortable. It stands greatly in need of paint to preserve it.

No. 15 MALE AND FEMALE GRAMMAR SCHOOL HOUSE, S. E. CORNER REPUBLICAN STREET AND WAGON ALLEY.

This building received extensive repairs. Partitions, in the first and second stories, were changed in positions to facilitate the arrangement of classes. The plastering was thoroughly repaired and pointed up; the pavements repaired; the old privy having become dangerous, and being inadequate for the wants of the school, was taken down and a new, commodious structure put up; the fences were put in order, and the building proper was painted outside and inside. Its standard at present may be considered very fair.

No. 15 MALE AND FEMALE PRIMARY SCHOOL HOUSE, S. W. CORNER REPUBLICAN AND SARATOGA STREETS.

New fences were built around the lot of this building, on the lines binding on Saratoga and Republican streets. The building was thoroughly examined, and all the necessary repairs of carpenters' work, plasterers' work, plumbers' work and bricklayers' work were fully executed, and it was then painted with two good coats of paint outside and inside, and the roof received one good coat of metallic paint. This building may be considered now in good order.

No. 16 MALE AND FEMALE PRIMARY SCHOOL HOUSE, N. E. CORNER HARFORD AVENUE AND CHEW STREET.

This building received the necessary attention due to its preservation and to the comfort of its inmates, as the various occasions required during the past year. The roof was painted with one good coat of metallic paint; and the building proper should be painted on the outside and inside, in order to keep it in a good normal condition.

No. 17 MALE AND FEMALE GRAMMAR SCHOOL HOUSE, WASHINGTON STREET, NEAR FAYETTE.

Considerable repairs were necessary to be made to put this building in good tenantable order. On the north boundary of the lot a new fence was erected; also the wing fences of the front on Washington street were rebuilt.

The ventilation of the privy was corrected by the building of an air shaft, and the construction of air

ducts through the wall; the pavements were put in order; the plastering repaired and pointed up; and the building was painted two good coats of paint outside and inside; and its condition at present is very good.

No. 18 MALE AND FEMALE PRIMARY SCHOOL HOUSE, WALSH STREET, NEAR LANVALE.

During a heavy storm last March, a portion of the east or rear end of this building's lot, which is above the grade level of the alley, washed out, and in order to prevent a similar recurrence and to put the premises in a stable condition, a brick retaining wall was built one-half the extent of the width of the lot. Other repairs of an incidental nature were made from time to time on the building as the demands exacted. It was given two good coats of paint inside and outside, and its condition is now fair.

No. 19 MALE AND FEMALE GRAMMAR SCHOOL HOUSE, PARK AVENUE, NEAR HOFFMAN STREET.

This building required extensive repairs to be made in order to render its condition comfortable. The escape of smoke and gas from the stoves and flues rendered the building untenantable, and necessitated a thorough modification of the flues and window sash, so as to facilitate a means of ventilation, and relieve the building of the noxious odors.

In order to accommodate the organization of the classes, a glass partition was erected in a large room, dividing it into two apartments. New fences were

built around the lines of the lot; the plastering was repaired and pointed up; all necessary repairs were made to the pavements, and the building received two good coats of paint outside and inside, and its condition now is very good.

No. 20 MALE AND FEMALE GRAMMAR SCHOOL HOUSE, N. W. CORNER JOHN AND EDEN STREETS.

This large building required, during the year, constant attention. Besides the various desultory repairs which it received, a new fence was built on the western boundary of the lot; the plastering was thoroughly pointed up; and the building received two good coats of paint outside and inside. Its condition at present is very good.

No. 21 MALE AND FEMALE GRAMMAR SCHOOL HOUSE, N. E. CORNER PRESSTMAN AND GILMOR STREETS.

This building was duly attended to, and such various repairs were made, when needed, to keep it up to a proper standard of preservation and usefulness. The rear portion of the yard, which had been left unpaved since its construction, was paved. The building now requires paint outside and inside, which, when it is received, will put it in good order.

No. 21 MALE AND FEMALE PRIMARY SCHOOL HOUSE, CORNER PENNSYLVANIA AVENUE AND ROBERT STREET.

All the exterior and interior repairs necessary to put this building in good order were made as the occasions demanded. The roof was thoroughly examined and

made tight; the floors, doors and sash repaired and properly adjusted; and the building was painted two coats on the outside and one on the inside; and its condition now would be very fair, but owing to the recent grading of Robert street, on which the south line of the lot binds, the lot is now elevated above the sidewalk about two feet. This will necessitate the building of a retaining wall and the reconstruction of the fence, as well as the paving of the sidewalk, in order to put the premises in a stable condition.

No. 22 MALE AND FEMALE PRIMARY SCHOOL HOUSE, RAMSAY STREET, NEAR SCOTT.

This old building received various repairs from time to time to keep it in running order. A new fence was built on the west boundary line of the lot; the interior of the building was thoroughly overhauled, and the plastering was repaired and painted up. The building should be painted outside and inside, being already injured for want of it.

No. 23 MALE AND FEMALE PRIMARY SCHOOL HOUSE, S. E. CORNER GOUGH AND WOLFE STREETS.

Constant attention was given to this old building during the past year, to keep it in an ordinary state of preservation and comfort. To put it in a good condition it must have new joists and floor in the first story; a new floor laid in the second story; the roof must be re-shingled; the building should be painted outside and inside, at least two good coats of paint; and the privy must be reconstructed to give better accommoda-

tions to the wants of the pupils, and proper ventilation to relieve the building from the intolerable odor arising from the cess-pool.

No. 25 MALE AND FEMALE PRIMARY SCHOOL HOUSE, CAROLINE STREET, NEAR BANK.

This building was thoroughly overhauled; the interior was put in good order; fences and pavements repaired; and it was painted outside and inside two good coats of paint. Its condition at present is fair.

No. 26 MALE AND FEMALE PRIMARY SCHOOL HOUSE, ORLEANS STREET, NEAR BOND.

Considerable repairs were made to this building. A vestibule was put to the east entrance door, in order to protect the class-room from the weather; smoke-stacks were modified, in order to accelerate the draught; and other incidental repairs were made as they were needed from time to time. Its condition is fair; but it requires paint outside and inside.

No. 27 MALE AND FEMALE PRIMARY SCHOOL HOUSE, S. W CORNER FAYETTE AND CHESTER STREETS.

This building received all the necessary repairs, in order to keep it up to a very fair standard. The exterior and interior were put in thorough good order; but it should be painted, at least, on the inside.

NO. 28 MALE AND FEMALE PRIMARY SCHOOL HOUSE N. W. CORNER BATTERY AVENUE AND CLEMENT STREET.

The roof of this building was put in complete order and painted; a partition was removed, making one large class-room of two; the plastering was thoroughly repaired and pointed; and the fences were put in order.

The building requires paint outside and inside to put it in a fair condition.

No. 29 MALE AND FEMALE PRIMARY SCHOOL HOUSE, HILL STREET, NEAR SHARP.

This old building has nearly run down; it should be thoroughly renovated, to put it in a proper state of usefulness.

No. 30 MALE AND FEMALE PRIMARY SCHOOL HOUSE, HOLLINS STREET, NEAR FULTON.

This building recived various repairs during the past year. Ventilating sash were adjusted to the windows; a new partition fence was erected; the pavements were thoroughly repaired; the building was painted one coat on outside, and its condition is now fair.

ENGLISH-GERMAN SCHOOL HOUSE No. 1, BIDDLE STREET NEAR FREMONT.

This building received a new shingle roof, the old roof had become so dilapidated as to render it impossible to make it water tight. Considerable carpenter's work was done on the interior; and the plastered ceilings were also extensively repaired; to put this building in a good condition, it is necessary that a new floor

should be laid in the first story; a new partition put up in the principal's room in second story, and that the house be painted outside and inside.

ENGLISH-GERMAN SCHOOL HOUSE No. 3, N. SIDE BALTIMORE STREET, NEAR AISQUITH.

Two glass partitions were erected in this building, one in the first story, the other in the second story, making of each large room, two class-rooms. Other general repairs were made when necessary, and the building is now in excellent order.

A review of the preceding statement shows that eighteen school houses were painted last year, several of them having been injured for want of it; and the following catalogue will show that there are thirty-two which now require painting, some of which have long since been injured for want of it, as may be seen by the denuded surfaces of the wood and metal parts of the buildings exposed to the chemical action of the weather. It is said that some of these buildings have not been painted for eight years; if such be the case, they have been carelessly neglected to the detriment of public economy; no building should be allowed to go beyond three years without being painted (at least) on the exterior.

My own experience with some of these buildings has revealed to me the fact that outside door frames, window frames and cornices have rotted for want of paint to such an extent, that it would have been futile to attempt to repair them.

I herewith respectfully submit the list of those which should be painted, in order to preserve them from further injury, viz:

Baltimore City College, Howard street, opposite Centre.

Western Female High School House, Fayette street, near Paca.

Female Grammar and Primary School House No. 1, southwest corner Fayette and Green streets.

Grammar School House No. 2, southwest corner Broadway and Bank street.

Grammar and Primary School House No. 3, west side of High street, north of Fayette.

Primary School House No. 4, northeast corner Hanover and Lee streets.

Grammar School House No. 5, southwest corner Greenmount avenue and Eager street.

Primary School House No. 5, southeast corner Broadway and Chew street.

Grammar School House No. 6, northeast side Division street, near Lanvale.

Primary School House No. 6, east side Ann street, near Canton avenue.

Primary School House No. 8, east side Caroline street, near Lombard.

Grammar School House No. 9, east side Courtland street, near Saratoga.

Grammar School House No. 11, northwest corner Bond and Jefferson streets.

Primary School House No. 12, southwest corner Barre and Warner streets.

Primary School House No. 13, north side Jefferson street, near Caroline.

Primary School House No. 14, east side Eutaw, near Preston street.

Primary School House No. 16, northeast corner Harford avenue and Chew street.

Primary School House No. 17, southwest corner Light and Poultney streets.

Grammar School House No. 18, north side Mulberry street, near Fremont.

Grammar School House No. 21, northeast corner Presstman and Gilmor streets.

Primary School House No. 22, south side Ramsay street, near Scott.

Primary School House No. 23, northeast corner Gough and Wolfe streets.

Primary School House No. 26, north side Orleans street, near Bond.

Primary School House No. 27, southwest corner Fayette and Chester streets.

Primary School House No. 28, northwest corner Battery avenue and Clement street.

Primary School House No. 29, north side Hill street, near Sharp.

English-German School House No. 1, Druid Hill avenue, near Biddle.

English-German School House No. 4, northeast cor. Bond and Chew streets.

English-German School House No. 5, Fremont street, near Lombard.

Colored School House No. 2, East street, near Douglass.

Colored School House No. 3, southeast corner Montgomery and Howard streets.

Colored School House No. 5, south side Eastern avenue, near Broadway.

MARKET HOUSES.

During the past year these buildings have not received, for want of funds, that attention due and necessary to keep them in a proper state of preservation, and their condition in several cases has grown from bad to worse.

In a report which I submitted to your honorable body under date of February 2d, 1880, (to which I would most respectfully refer you,) I called your attention to the then bad condition of the several market places, and asked for an appropriation sufficient to put them in a good condition. But from some cause, no action was taken on the report, and the only resources left to this department, to answer the daily urgent and pressing calls to put these buildings in order, was the appropriations made under the head of city property, which appropriation, if I understand it correctly, is intended to be applied to the annual wear and tear of not only the Market Houses, but the City Hall, the Court Houses and the Register Building—presupposing all these

buildings to be in a good normal condition at the beginning of the term for which such appropriation is made.

Exercising the utmost vigilance and economy that I was capable of, I managed to apply to each Market House what I thought was the fair quota of this appropriation, considering its condition in relation to the other buildings provided for in the total amount; by this means:

BROADWAY MARKET HOUSE

Received the following repairs:

The floor of the Institute Hall was patched; the water-closets put in order; the shingle and slate roofs of the shed building repaired, and spouts and pavements repaired; but these incidental repairs are far from putting this market-house in a good condition. It requires a new shingle roof to be laid on the shed market building, between Aliceanna and Lancaster streets; a new floor should be laid in the Broadway Institute Hall; the pavements should be re-laid in many places and repaired in others; the belt course of the hall building should be pointed up, and the top of it flashed with tin. The ceilings in the hall require extensive repairs, some portions having fallen off, and others in a dangerous condition; the hall needs re-frescoing, and the building proper should be painted outside and inside.

CENTRE MARKET HOUSE

The plaster ceiling under the Maryland Institute Building was repaired and pointed up; the spouting of the shed buildings was put in order; the pavements patched, and generally the buildings kept to an ordi-

nary standard. But the pavements now require considerable repairs; and the shingle roofs of the sheds should be put in order; the plastered ceilings pointed up and whitewashed.

BELAIR MARKET HOUSE.

The shingle roofs of the shed buildings were thoroughly repaired; the plastered ceilings were patched and pointed up; and the pavements, wherever dangerous, were put in order; but this market house requires extensive repairs to put it in a fair condition. The building over the fish market, occupied by the clerk, is a faulty construction, and is extremely dangerous; the brick piers upon which it rests, have been thrust out of plumb by the sagging of the girders upon which the walls are built; the walls by settling have cracked and fissured to such an extent as to greatly weaken their bonds or cohesion, and as this goes on increasing, the girders will receive a proportionally greater strain, hence, greater thrust on the piers, until they may be instantaneously thrown out of equilibrium. I know of no means that the ends would justify, by which this building could be made secure according to its present construction. I would therefore respectfully suggest that it be removed to some location on the ground, or that a light wooden structure be built in its place. The sheds over the sidewalks at the ends of the buildings require re-shingling; the hanging gutters, which are a source of continual expense to keep them in order, should be taken off the shed buildings, and valleys constructed to supply their

places, on the roof near the eaves. The plastered ceilings of the shed buildings require extensive repairs; the pavements are greatly out of order under the boxes, and the aisles in many places require re-laying. The roof of the fish market should be painted, and all the plastered ceilings should have at least two good coats whitewash.

LEXINGTON MARKET HOUSE.

The north side of the roof of the building between Paca and Green streets was re-shingled, and the south side was thoroughly repaired, and this roof is now in good order. Some repairs, where the urgency of the case required, were made to the plastering, spouting, &c., to keep the buildings in tenantable order; but for want of money very little was done to the pavements, which are in an intolerably bad condition, particularly so under the building between Paca and Green streets and the fish market building, where the rats have undermined them with a network of galleries, to such an extent that the pavements have settled all over their areas, forming an undulated surface with basins to hold water and filth; and beneath the boxes the bricks have been rooted up and conveyed away, leaving in many places great holes, which serve as so many reservoirs to receive the disgusting, nauseous residuum of decomposed organic matter. These pavements should be taken up and their beds readjusted, and some method adopted to prevent the inroad of the rats before laying them again. Several plans have been submitted of various patent cement pavements, each

claiming to be rat-proof; some of those plans were laid before a Committee of the Council last year; but it was thought at that time to be too expensive, and no further consideration was given to the subject. But imperative necessity requires that some renovation should be made with as little delay as possible; at least, the pavement should be relaid, if only on the present principle of the bricks laid flat on a bed of sand. The galvanized iron roof of the market building between Eutaw and Paca streets should be scraped, and, where necessary, soldered, and then covered with a good coat of paint; also the tin roof of the fish market house should be painted; the plastered ceilings throughout should be properly repaired, pointed up, and receive two good coats whitewash.

HANOVER MARKET HOUSE.

The pavements need repairing, and the ceiling requires pointing up and whitewashing.

CROSS STREET MARKET HOUSE.

Pavements require extensive repairs, particularly under the boxes and stalls where much broken up and undermined by rats. The plastered ceilings need repair and whitewashing. The hall should be refrescoed, and the hall building painted outside and inside.

HOLLINS MARKET HOUSE.

In the hall building of this market place, the plumbing was thoroughly overhauled and put in complete

order, and some little desultory repairs were made to the pavements as far as its quota of the appropriation would admit. To put this market house in good order, the pavement must be thoroughly repaired; the interior of the hall should have the plastering put in order and refrescoed; the hall building should be painted outside and inside, and the ceiling of the shed whitewashed.

RICHMOND MARKET HOUSE.

The roof of the shed building needs paint. The pavement requires considerable repair to put it in a proper sanitary condition, and the iron gutter-plates should be readjusted.

OLD MASONIC HALL.

This building, occupied by the City and Circuit Courts, requires considerable repairs outside and inside to put it in good order. The rough-casting on the outside requires thorough repairing if not renewing. The Court rooms need refrescoeing, and the interior and exterior of the building should be painted.

CITY HALL.

This building has received so much of the repairs, set forth as necessary to be done in the last annual report of this department, as the limits of the appropriation would allow, viz:

The slate roofs have all been thoroughly examined and put in complete order. The joints of the stone

copings of the pediments of centre building ; the joints of the copings of the cornice all around the building, and the joints of the stone base of the colonade from the top of the roof to the base of the columns, were cleaned of the old cement, then caulked with oakum and cemented or payed over with white lead cement. The chimneys were flashed with galvanized iron, and the brick parapet walls above the cornice all around the roofs were covered and flashed with lead and cemented. The copper gutters on the north and south sides of the centre building, as well as the gutters over the courts, were enlarged to a size sufficient to carry off the water. Extra pipes leading from the dome to the gutters on the centre building were supplied, in order to prevent leakage in the roof. To prevent the drip of the main cornice from further soiling and defacing it, a valley was built on the top of it all around the building, and covered with XX tin, which was painted two coat on the under and upper sides ; and in order to carry off the water shed, this valley was connected with the down pipes leading to the pavement, by the inserting of copper pipes in holes cut through the stone cornice and masonry work.

The exterior of the dome from the top of the lantern to the base of the colonade, and all the wood, iron and tin work of the exterior of the mansard roof, consisting of the window frames and sashes, tin work on the top of the main cornice, galvanized iron cornices, angle formings and crestings, &c., have received three good coats of best oil and lead. And the entire iron and wood work on the inside of the cupola and dome, as

well as the brick and stone walls of the stairway leading from the third story of the building to the interior of the colonade, have received two good coats of the best lead and oil.

The above work exhausted the amount appropriated per Resolution No. 62, approved April 27th, 1880. But it does not include all that is yet very necessary to be done, nor all that was mentioned in the last annual report of this department.

The cymatium and corona of the main cornice, having been greatly defaced by the stain of the drip during wet weather, now presents an unsightly appearance and detracts from the beauty of the building; it should be rubbed over and properly cleaned, before the rust strikes deeper in the grain of the stone. And as a valley has been constructed on the top of the cornice so as to shed the water back through the down spouts, it is believed that it will be protected from a similar recurrence.

Frequent complaints have been made of the offensive odor emanating from the water-closets in the cellar, as well as others attached to some of the departments. These closets require some modification to remedy the evil. They should have self-acting valves attached, and vent pipes carried up, through and out of the air-shafts, above the roof.

The tiles in the various corridors and the rotunda, require some attention, many of them have become loose on their beds or settled out of level, in which condition they are liable to fracture. All such should be taken up and reset. The vaulted ceiling under the

portico floor, at the east entrance of the basement story, is greatly defaced by the incrustation on its surface formed by the filtering of the water through the joints of the floor. This should be corrected, as it tends to destroy the cohesion of the joints by the eroding away of the cement. I would suggest that the joints of the flags forming the floor be opened at the top and caulked with oakum and then payed with white lead cement, and that the ceiling be then cleaned and pointed up.

MISCELLANEOUS.

The following works ordered to be done by special resolutions have been performed, viz:

Per Resolution No. 9, approved March 10, 1880, the Clerk's Office of the Criminal Court was repaired, refrescoed and furnished.

Per Resolution No. 114, approved April 4, 1880, the tin roof of the Cross Street Hall was thoroughly repaired and painted; and the entire system of the gas and water fixtures in the interior of the hall building thoroughly renewed.

Per Resolution No. 97, approved April 5, 1880, the fire-proof room in the basement of the old Masonic Hall building was fitted up with cases for the protection of the records of the Circuit Court of Baltimore; and a dumb-waiter built, connecting this room in the basement with the Circuit Court room in the second story of the building.

Per Resolution No. 125, approved April 29, 1880, the room immediately over City Council Committee rooms,

in the mansard story of the City Hall, was fitted up with cases and shelves for the preservation and protection of the records and papers, and other materials in the custody of the City Librarian.

Per Resolution No. 136, approved May 5, 1880, a large portion of the floor in the Criminal Court rooom was sheathed over; the jury box was modified; and the court room was furnished with carpets, matting and chairs.

Per Resolution No. 216, approved September 9, 1880, a brick pathway was laid through the cobble-stone pavement on Myrtle avenue, binding on the northeasterly side of Engine House No. 13.

EGRESS OF SCHOOL BUILDINGS.

Pursuant to Resolution No. 196, approved May 26, 1880, directing the Inspector of Public Buildings to examine the public schools, and report in regard to providing additional means of ingress and egress, I have the honor to state that I have examined all the public school houses belonging to the city of Baltimore, and find that the majority of them, or thirty (30) buildings, have but one stairway for the inmates to make their exit from the second story; and many of these have the stairs narrow, contracted and tortuous, rendering it hazardous in descending them when crowded. In a mass of children, a sudden alarm of fire or other danger to the building, whether true or false, is most certain to create a panic; an instinctive impulse for self-preservation prompts the whole mass towards the stairway; and if this be narrow and defective, and the

crowd great, the consequences would be more or less fatal. But still more terrible would be the result if egress by a single stair should be cut off by a too close proximity to fire. Therefore provision should be made to guard against a real danger of fire; and this can be done to a great extent by providing ample and substantial means of egress, which, though under ordinary conditions, would be apparently surperfluous and unnecessary, yet in cases of extreme emergencies would be found to be supremely advantageous. I would therefore respectfully suggest that each school house should have not less than two stairways leading from the second story; and that these stairways should be situated as remotely from each other as the plan and location of the building would admit; that is to say, where possible, one located at the extreme front, the other at the extreme rear of the building; they should have spacious platforms about one-half the height of the story, and the stairway should be wide enough in the clear to allow four children to pass abreast, and they should be furnished with substantial hand rails on each side, and they should land in commodious vestibules having wide doors opening on the outside to give free egress from the building. As a further means of precaution, such large buildings as No. 20 Male and Female Grammar and Primary School House, northwest corner of John and Eden streets, and No. 3 Male and Female Grammar and Primary School House, High street, might be provided with intermediate iron stairways located outside the buildings, about midway on each side. These stairways might be constructed light

and substantial; and so located in their positions, where yard space would permit, as to be at least six feet distant from, and parallel with, the flank walls; their landings being connected by an iron bridge at the upper floor. Thus constructed, no light or air would be cut off from the interior of the building, and but little yard room sacrificed.

The great advantage of these intermediate lateral stairways (or danger escapes) would consist not only in the additional chances of egress, in the case of one or the other of the stairs being obstructed by fire; but also they would be the effectual means of facilitating the breaking up the mass in time of panic and causing it to diverge in the different directions of egress, thereby relieving each stairway from the excessive pressure caused by the excitement due, and so often fatal in its consequences on such occasions.

A list of the school houses which have but one stairway is here appended, in order that you may give to each that consideration which, in your wisdom, you may deem expedient, and make such provision as will be adequate for the additional means of egress in time of extreme emergencies, to guard the pupils and teachers from danger in case of fire.

School Houses.	LOCATIONS.	Seating Accommodation on Second Floor.
Primary No. 2....	N. E. corner Gough and Stiles streets	246
Grammar No. 4..	East side of Sharp street, near Montgomery	352
Primary No. 4...	N. E. corner Hanover and Lee streets	298
Grammar No. 5.	S. W. corner Greenmount avenue and Eager street	260
Grammar No. 7..	S. E. corner Chesapeake and Hudson streets	180
Primary No. 7...	North side Mullikin street, near Aisquith	246
Grammar and Primary No. 9	East side Courtland street, near Saratoga	254
Grammar and Primary No. 10	S. E. corner William and Warren streets	354
Primary No. 10.	North side Hollins street, near Schroeder	251
Grammar No. 11.	N. W. corner Jefferson and Bond streets	300
Primary No. 11.	N. E. corner Pierce and Schroeder streets	260
Primary No. 12.	S. W. corner Barre and Warner streets	376
Grammar No. 13.	East side Aisquith street, near Mullikin	322
Primary No. 13..	North side Jefferson street, near Caroline	214
Primary No. 14..	East side Eutaw street, near Preston	220

School Houses.	LOCATIONS.	Seating Accommodation on Second Floor.
Primary No. 15..	S. W. corner Saratoga street and Carrollton avenue.....	403
Grammar No. 17.	East side Washington street, near Fayette.....	320
Primary No. 17.	S. W. corner Light and Poultney streets.....	322
Grammar No. 18.	North side Mulberry street, near Fremont.....	322
Primary No. 18.	East side Argyle avenue, near Lanvale street.....	196
Primary No. 21.	East side Pennsylvania avenue, near Robert street.....	312
Primary No. 25.	West side Caroline street, near Bank street.....	252
Primary No. 26.	North side Orleans street, near Bond.....	258
Primary No. 27.	S. W. corner Fayette and Chester streets.....	230
Primary No. 28.	N. W. corner Battery avenue and Clement street.....	274
Primary No. 29.	North side Hill street, near Sharp.....	204
Primary No. 30.	North side Hollins street, near Fulton.....	392
English-German No. 1.....	East side Druid Hill avenue, near Biddle street.....	314
English-German No. 2.....	S. E. corner Bond and Chew streets.....	206
Colored Primary No. 2.....	S. E. corner Howard and Montgomery streets.....	230

In the above list, one of the school houses—No. 9, on Courtland street—is a four-story building, including the basement above the level of the yard, and three stories above the level of the pavement on Courtland street, where the principal entrance is located. The fourth story has but one means of egress—a single platform stairway at the front on Courtland street.

DANGEROUS WALLS, &c.

I feel it my duty to again call your honor's attention to the necessity of providing a suitable code of laws, regulating the construction and repairs of buildings in the city of Baltimore, in such a manner as to insure the safety and protection of the lives and property of persons. Scarcely a week passes that this department is not called upon to examine some dangerous wall or defective construction, and solicited to have the same put in safe condition. But, as may be seen by a reference to the last annual report of this office, the Inspector of Buildings has no legal power conferred on him to enforce any such measures as he may deem necessary for the safety of persons or property; and in a majority of cases, the notices given by this department are ignored or pass unheeded by the parties that receive them; whilst the complainer, in many cases, severely condemns the Inspector of Buildings for a failure in the performance of his duty.

CONCLUSION.

The sum required for this department for the year 1881, is eighty-seven thousand four hundred and twenty-three dollars, ($87,423.) The amount of work enumerated and referred to in this report, but not specified, may be ascertained by reference to table A.

Respectfully submitted,

ROBERT S. BEETLEY,

Inspector of Buildings.

TABLES.

TABLE A.

Statement showing the Amount of Appropriations for this Department for the year 1880, *and the Disbursements to* 31*st December.*

Ordinances and Resolutions.	OBJECT.	Appropriated.	Expended.	Balance Unexpended
Ordinance 62.	For repairs of Public School houses	$25,000 00	$24,997 15	$2 85
	For repairs of City Property	6,000 00	5,974 94	25 06
	For repairs of City Hall	4,000 00	4,000 00	.....
	For the completion of Male Grammar School No. 1	13,850 00	13,850 00	.....
	For contingent additional expenses on the same	1,000 00	965 75	34 25
	For repairs of Clock at No. 6 Engine House, balance per contract	50 00	50 00	.....
	For Salaries	3,000 00	3,000 00	.....
	For Incidental Expenses	50 00	38 27	11 73
Resolution 9.	For repairs and purchase of furniture for Clerk's Office Criminal Court	500 00	500 00	.....

Resolution 97.	For repairs and alterations Circuit Court room	900 00	899 61	39
" 13.	For paving at No. 13 Engine House	50 00	50 00	
" 114.	For repairs of Cross Street market	1,200 00	1,038 03	161 97
Ordinance 56.	For building Grammar School No. 7	15,000 00	7,023 20	7,976 80
Resolution 125.	For arranging rooms for the Records of the Librarian	550 00	549 95	05
" 136.	For repairs and refurnishing Criminal Court room	650 00	636 39	13 61
		$71,800 00	$63,573 29	$8,226 71

TABLE B.

Estimated Requirements of this Department for the year 1881.

For the general repairs of Public School houses	$22,000 00	
For the special purpose of painting the same	14,000 00	
		$36,000 00
For the general repairs of City Property		7,000 00
For the special repairs of Market houses		16,000 00
For repairs of the City Hall		3,000 00
For the completion of Grammar School No. 7, (balance per contract)		7,323 00
For building the proposed new Public School house, in South Baltimore		15,000 00
For Salaries		3,000 00
For Contingent Expenses, car fares		200 00
		$87,523 00

TABLE C.

Revenue of this Office for the year 1880.

For Permits issued, as follows:		
13 Bay Windows		$940 00
55 Steam Boilers and Engines		610 00
143 Signs		286 00
241 Telegraph Poles		482 00
571 Frame Sheds		1,940 86
		$4,258 86
For Advertising Applications	$1,720 00	
Less amount paid for Advertising.	961 19	
		758 81
		$5,017 67

ANNUAL REPORT

OF THE

INSPECTOR OF GAS & ILLUMINATING OILS

TO THE

MAYOR AND CITY COUNCIL OF BALTIMORE,

FOR THE

FISCAL YEAR ENDING DECEMBER 31st, 1880.

REPORT.

OFFICE OF INSPECTOR OF GAS
AND ILLUMINATING OILS,

Baltimore, January 1st, 1881.

To the Honorable the Mayor and
City Council of Baltimore:

GENTLEMEN:

The following report of the work of this office during the year ending December 31st, 1880, is respectfully submitted:

Soon after the ordinance establishing the inspection of illuminating oils went into operation, a technical difficulty was discovered, which required the action of the Legislature to remedy. That could not be obtained until March 25th, and pending this, it would have been useless to have attempted to enforce the law. All that could be done during the first quarter of the year was to notify parties selling oil below the standard; to forbid further sales, and to require them to exchange the dangerous for a standard article. After the necessary authority was obtained, the Inspector, from time

to time, reported the names of a large number of dealers who were unwittingly violating the law. Many of these cases have been investigated by the Grand Jury, and a number of indictments found, but up to the present time various causes have operated to prevent the trial of any one on its merits. A large number—all those reported during April and May—were brought before the Criminal Court on a test case, and were all dismissed, on the ground that the Inspector, in determining the flashing point, had subjected the samples to a more severe test than the law required. Since that decision, the Inspector, by the instruction of the Court, has determined the flashing point by the method employed by exporters and at the oil refineries, by the usage of the trade. But it would seem that the determination of the flashing point for commercial purposes, and for the protection of the public against explosions of coal oil lamps, might be considered as two very different investigations. The refiner seeks to ascertain how high the oil can be heated before it gives off any inflammable vapor, while the best protection to the public would be secured when the Inspector determines at how low a temperature the oil will give off this dangerous vapor. All the indictments found since last May are still awaiting trial, except a few dismissed on technical objections. The last one presented was in October. A dealer sold gasoline as safety oil. The inevitable explosion that followed the attempt to use it in an ordinary lamp providentially did no injury to person. The case was reported to this office by the police, and the oil was tested; gave flashing point 0° Far., and density 73° B.; was laid

before the Grand Jury, and subsequently brought into Court; there it is held under advisement on a demurrer, the counsel for the defendant claiming that the ordinance is illegal. Whatever may be the decision of the Court—and it is not improbable that it will be against the city—the technical difficulty can be effectually remedied, as I am informed, by the City Council repealing and re-enacting the ordinance as it stands. That it has been serviceable in diminishing the number of lamp explosions, and this too in spite of all the unexpected obstacles it has had to encounter, seems manifest by a comparison of the records of the past year with those of the preceding nine, shown in the accompanying table, (marked A.) All that seems needed to give it full effect is to have its penalties enforced in one or two cases. When parties interested are satisfied that the sale of dangerous oils will be followed by certain and speedy punishment, we may reasonably hope that such accidents will rarely occur. Perfect exemption rests on the supposition that the oil in the lamp will never become heated up to the point where it can give off an inflammable vapor. Whether the ordinance, as interpreted by the Court, will secure such exemption must be left for time to decide. Apart from the accidents caused by the use of gasoline, the few lamp explosions, whose history appears to be certainly known, have occurred where oil of the standard quality was used. The first fatal accident was that of a young woman in Mulberry street, in April. It was connected with a broken lamp, but whether that exploded, or whether it broke by falling, could not be determined. The oil used would

have been fully up to the standard as now determined, though it stood below the standard as determined at that time, and was so reported. The second death—that of a mother of a family, on Fort avenue, in June—was caused by an attempt to pour oil from a can on burning fuel. The explosion that followed was more disastrous from the character of the oil. A sample tested; flashing point 70° Far., density 49.5° B. The case was reported, and the dealer indicted in July. August 24th, a coal oil lamp exploded at 130 Orchard street, while standing on a table near an open window, with no one present; lamp said to have been full, and burning but a short time. A sample of the oil tested; flashing point 120° Far., density 48° B. August 28th, a hanging coal oil lamp exploded in the night in the store 69 East Baltimore street; store closed, and no one present. A sample of the oil tested; flashing point1 20° Far., density 48° B. In these cases the cause of the accident is left to conjecture. If the oil could have become heated up to the vaporizing point, the explosion might have followed. The black crust that accumulates on the wick of a burning lamp sometimes drops on the metal top, and at times may be seen burning there. Should this continue long, the metal would become heated, and ultimately the oil in the lamp might be heated above the limit of safety. A reported explosion, November 26th, at 91 Patterson avenue was more probably a case of broken lamp. The oil tested; flashing point 124° Far., density 47° B. The lamp was left burning, with no one present, in a locked room, containing also a large number of Canary birds and a cat, and the moral of the consequent catastrophe seems

self-evident. A reported lamp explosion, November 29th, in Bath street, proved to have occurred with oil that tested; flashing point 120° Far., density 47° B.; particulars not given. It is the intention of the Inspector to examine all cases of lamp explosions that are brought to his knowledge, to test the oil in use, and to procure and test samples from the dealer who supplied it. He is indebted to the police and the daily press for much valuable information; but withal very many accidents escape notice until so long time has elapsed that investigation is useless.

The table A, referred to above, gives the number of accidents by coal oil during the last ten years; the number of persons burned, and the number of those who died in each year. The materials have been politely furnished by the Fire Inspector, from the books of his office. The accidents include not only lamp explosions, such as occur without any obvious cause, but also those caused by pouring oil on burning fuel. by filling lighted lamps, by broken lamps, &c., &c.

The relative number of these for past years cannot conveniently be distinguished, but the twenty-eight accidents during 1880, may be classified thus:

Three were caused by pouring oil on fuel.

Two were caused by breaking lighted lamps.

One was caused by filling a lighted lamp.

Two were city gasoline street lamps.

Two were gasoline lamps for out door use.

Deducting these, there remain eighteen reported lamp explosions, of which only a few were brought to my

notice in time for any investigation. According to the record they seem to have been comparatively trifling, causing no injury to person, and none worth noting to property.

The number of samples tested during the year ending December 31st, 1880, and the number of these reported as dangerous, are given in table B. More than one-half of all the samples condemned during the whole year were reported during the first month—while during the last two months all were up to the standard and a large number above it. It is very satisfactory to find that by a persistent effort to carry out the ordinance, notwithstanding the failure of all attempts to enforce its penalties, the object for which it was passed, the protection of the public, has been so well attained for the present. The fact that there was a law establishing a certain standard for kerosene oil, that any one violating it was liable and likely to be prosecuted, and that oils offered for sale were daily tested, has sufficed to work a great change in the character of the article in the market. The refineries that heretofore have had to consult only the demand for the export trade, for which a lower grade article will suffice, have evidently, in the last half year, more fully realized the requirements of our city ordinance. The oil they have supplied during that period has been very well up to the standard test, and not unfrequently above it. With their active co-operation we may hope to lose sight entirely of the coal oil horror.

The improvement in the character of the gas supply noted in my report for 1879, continues with a slight

increase. Since 1871, when the Peoples Gas Company began to supply the public, the Inspector has been obliged to use his own apparatus for testing the gas from those works, and the same was necessarily used for the gas from the works of the Consumers' Mutual Company, when that commenced operations. But this apparatus having become fairly worn out and no longer reliable, its use was discontinued in April last. Since that time it has not been practicable to make any report from actual tests of the gas from those companies. To do this would have required a duplicate set of photometrical instruments to replace those worn out. Now that the different companies have been united in one, the Consolidated Gas Company, supposed to furnish gas of uniform quality, duplicate instruments are not so necessary. If in the future any district should be supplied exclusively from a gas works not represented in the City Hall supply, that district would require a separate photometer room and apparatus. This report assumes that the gas tested at the City Hall represents what is delivered to consumers generally. The sudden increase in illuminating power that is noted in August is explained by the change then made in the standard burner. Until the passage of the present ordinance the Inspector had no discretion, but was compelled to use the English Parliamentary standard. The ideal standard is a burner capable of developing the maximum quantity of light from the consumption of five cubic feet of gas per hour. After a number of comparative experiments with different forms, a Sugg London Argand F was selected as giving the best adapted to our gas. Not-

withstanding the improved illuminating power complaints of want of light have been occasionally heard. In some cases brought to my knowledge, the difficulty was not in the quality of gas but in an insufficient supply—the service pipes being too small to convey the quantity needed under the pressure. To increase the pressure until enough could be forced through the small pipes, would remedy the difficulty but imperfectly; and it would be open to the objection that others compelled to burn gas under excessive pressure would burn it wastefully. The true remedy is to see that the service pipes are the right size. In most cases the want of light was evidently owing to imperfect burners and was remedied when these were exchanged for better ones. The chemical purity of the gas supply has been uniformly satisfactory to qualitative tests. It has never contained more than a mere trace of ammonia and never any appreciable quantity of carbonic acid or sulphuretted hydrogen or other sulphur compounds. In one aspect, this question is of secondary importance as long as the illuminating power is maintained at the proper point. It is only when chemical impurities interfere with the light-giving power of the gas or become obnoxious to health in the form of injurious products or residues that quantitative investigation would be required. For that work, this office has no facilities. No difficulty of this kind and no suspicion of any such difficulty has occurred in the year past; and there would appear to be no reason why the present high standard of our gas supply should not be maintained in future.

In conclusion, I must beg leave to say, that the appliances for the work of this office are sadly deficient, and until supplied, all results as reported can only be considered as more or less close approximations. The table marked C, gives the average of the illuminating power of the gas during the year just ended.

Respectfully submitted,

WILLIAM E. A. AIKEN,
Inspector, &c., &c.

TABLE A.

Showing the number of accidents from Coal Oil and Gasoline, with the number of persons burned, and the number of those that died each year during the ten years ending December 31, 1880.

	Accidents.	Persons Burned.	Persons Died.
1871	25	10	5
1872	55	30	5
1873	68	53	10
1874	69	27	18
1875	55	30	7
1876	65	29	15
1877	62	23	9
1878	91	50	15
1879	48	26	6
1880	28	6	2
Totals	566	284	92

TABLE B.

Showing the number of samples of Coal Oil and Gasoline tested, with the number of samples reported as dangerous, during each quarter of the year ending December 31, 1880.

	Samples Tested.	Samples Condemned.
January, February, March.	1590	179
April, May, June.	1364	52
July, August, September.	1257	6
October, November, December.	1165	1
Totals.....	5376	238

TABLE C.

Showing the average Illuminating Power of the Gas Supply of the City of Baltimore for the year ending December 31, 1880.

	Baltimore Co. in Candles.	People's Co. in Candles.	Consumers' Mutual Co. in Candles.
January	17.25	17.50	18.50
February	17.75	18	18.62
March	17.80	18	18.90
1st quarter	17.60	17.83	18.67
April	17.87	.....	.....
May	17.90	.....	.....
June	17.50	.....	.....
2d quarter	17.75	.....	.....
July	17.90	.....	.....
August	20	.....	.....
September	20.50	.....	.....
3d quarter	19.46	.....	.....
October	20	.....	.....
November	21	.....	.....
December	19.20	.....	.....
4th quarter	20.06	.....	.....
For the year		18.71	

The photometer used is a 100 inch scale, with a Bunsen disc and a Sugg London Argand burner, letter F—the gas burning at the rate of 5 cubic feet per hour with standard spermaceti candles calculated to the rate of 120 grains of sperm per hour.

After the foregoing report had been completed, it occurred to the writer that the financial results of the ordinance might be interesting. They can be given in few words. On the books of the Inspector for the last year there appear the names of 2123 individuals and firms as retail dealers in kerosene oil. Assuming that each has paid the one dollar license fee required, the treasury has received $2123 00

It has paid out for salary of Inspector and Assistant	$1300 00	
For office expenses	75 00	
Total expenses		1375 00
Balance left in the treasury		$748 00
To this should be added the amount heretofore paid the Inspector of Gas, now not needed		365 00
		$1113 00

This last amount would then represent what the ordinance has contributed to the available means of the city treasury.

WILLIAM E. A. AIKEN,

Inspector, &c.

ANNUAL REPORT

OF THE

COMMISSIONERS FOR OPENING STREETS

TO THE

MAYOR AND CITY COUNCIL OF BALTIMORE,

FOR THE

FISCAL YEAR ENDING DECEMBER 31st, 1880.

REPORT.

OFFICE OF THE

COMMISSIONERS FOR OPENING STREETS—CITY HALL,

Baltimore, January 3, 1881.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

We have the honor to submit to you a statement of the operations of this department from January 1, 1880, to December 31, 1880, inclusive.

The following list comprises the streets and alleys opened and closed during the above-stated time; also, the amount of damages, expenses, benefits and cost to the city for each and every street, &c.

Streets, &c., Opened and Closed.	Damages.	Expenses.	Benefits.	Amount on City.
Chatsworth-run sewer, from Cross to Scott street	$ 8,442 42	$456 93	$2,344 12	$6,555 23
John street, from Gay street to eastern city limits	21,294 59	994 96	16,560 16	5,729 39
Closing an alley between Fulton avenue and Bruce alley	255 00	265 00	520 00	.....
Marshall street, from Dorsey street to the shore line	1,208 00	200 07	771 00	637 07
Patterson Park avenue, from Oliver street to North avenue	46,462 00	1,034 68	17,796 59	29,700 09
Douglass street, from its present terminus to Gay street	263,197 37	5,442 03	78,468 66	190,170 74
Luzerne street, from Baltimore street to Madison street	26,747 15	642 54	16,914 12	10,475 57
Oak street, closing, from North avenue to Lanvale street	11 00	227 17	238 17	.....
Jones' Falls, between Hillen street and Low street	60,738 67	572 45	.....	61,311 12
Cathedral street, from Mulberry street to Saratoga street	88,200 00	1,764 71	51,258 65	38,706 06
McElderry street, from Cannon street to Loney's lane	16,087 88	815 67	12,282 03	4,621 52
	$532,644 08	$12,416 21	$197,153 50	$347,906 79

ITEMS OF EXPENSE ACCOUNT.

Per diem of Commissioners and Clerk	$3588 00
City Surveyor	5533 31
Magistrate	12 00
Stationery, &c	78 50
Auctioneer	904 85
Publishing legal notices	2299 55
	$12,416 21

STREETS AND ALLEYS NOW IN PROCESS OF OPENING.

Race street, from Cross street to Fort avenue.

Gold street, from Pennsylvania avenue to Madison avenue.

Burke street, from Baltimore street to Oliver street.

Cannon street from Baltimore street to Oliver street.

Collington avenue from Hampstead street to Hoffman street.

Jones street, from Fort avenue to Beason street.

Calvert street, from Biddle street to John street.

Rutter alley, from Mosher street to McMechen street.

Patapsco street, from Eager street to Monument street.

Covington street, from Fort street to Gould street.

North street, from Chase street to Biddle street.

Hoffman street, from St. Paul street to North street.

Scott street from its present terminus to Ridgely street.

Towson street, from Fort avenue to Beason street.

Clement street, from Lawrence street to Hull street.

A court from Post office avenue to Holliday street.

Hargrove alley, from Townsend street to the property of the Baltimore City Passenger Railway Company.

STREETS, ALLEYS, &c., NOW IN PROCESS OF CLOSING.

Belvidere street, between the southerly side of the southernmost abutment of the old Belvidere Bridge, and the northernmost outline of the property of the Union Rail Road Company.

Lawson's lane, between the south side of North avenue and the northeast side of Druid Hill avenue.

Fourth street, from the south side of Fort avenue to the property owned by Alex. Gould, Sr.

Addison alley, to close eight feet on the south side, from High street to the line of the property owned by Charles and G. W. Eccleston.

ORDINANCES REPEALED.

Ordinance No. 86, of 1876—To open Porter street from Claggett street to Beason street.

Ordinance No. 146, of 1874—To condemn for public use as a highway, a triangular piece of ground from Barre street to Sterrett street, between Sterrett and Fremont streets.

Ordinance No. 104, of 1878—To close Lawson's lane on the east side of Druid Hill avenue and the south side of North avenue.

In the trial of the appeals from the decision of the Commissioners, at the September term of the City Court, before his honor Judge Garey, it was decided in the case of the Grand Lodge of the Independent Order of Odd Fellows vs. the Mayor and City Council of Baltimore, in the opening of Douglas street, that the ordinance was void, the same not being in accordance with the preliminary notice. In the appeal of the Cathedral Church and others, in the opening of Cathedral street from Mulberry street to Saratoga street, the proceedings of the Commissioners were set aside for insufficiency of publication of notice of first

meeting, and other omissions in forms that have been in use for many years.

The decisions in the above cases, affecting all uncompleted condemnations, we consulted the City Solicitor, who gave as his opinion, that the aforesaid decisions rendered them fatally defective, and in accordance with instructions from him, we have withheld any further proceedings on said streets. In this connection we would respectfully refer your honorable body to the report of the City Solicitor, which more fully and definitely sets forth the status of the streets now in process of opening.

Respectfully submitted,

JOHN B. WILLIAMS,
JAS. S. MORROW,
HENRY R. CURLEY,
Commissioners for Opening Streets.

R. F. GREEN, *Clerk.*

ANNUAL REPORT

OF THE

JUDGES OF THE APPEAL TAX COURT,

TO THE

Mayor and City Council of Baltimore,

FOR THE

FISCAL YEAR ENDING DECEMBER 31, 1880.

REPORT.

APPEAL TAX COURT,

BALTIMORE, January 1st, 1881.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

We beg leave herewith to submit the result of our labors for the year 1880, which closed on the 31st day of December.

Tabular statement marked "A" shows the taxable basis charged to the City Collector from the years 1876 to 1880, inclusive, with the assessments added to each, and the collections and abatements made on each.

Table "B" exhibits, by wards, the number of building permits issued during the year.

Table "C," the Assessor's report, shows the number of new buildings and additional improvements assessed by the Court's Assessor; the wards in which they are severally located, and the detailed and aggregate valuations of the same.

TABLE A.

Statement of property for each year, that stands charged to the City Collector, December 31, 1880.

1876.		
Amount of assessment unpaid January 1, 1880		$4,685,908
Less abatements		$1,504,884
Amount collected upon		1,964,759
Amount remaining uncollected, closed by limitation		1,216,265
		$4,685,908

1877.	Real.	Personal.
Amount of assessment unpaid January 1, 1880	$18,355,343	$7,404,980
Amount of new assessments	322,219	579,240
	$18,677,562	$7,984,220
Less amount of abatements	$3,413,341	$3,871,691
" " collected upon	14,564,740	2,418,957
Amount remaining uncollected.	699,481	1,693,572
	$18,677,562	$7,984,220

1878.	Real.	Personal.
Amount of assessment unpaid January 1, 1880	$30,433,503	$9,100,721
Amount of new assessments	340,478	662,415
" " refunds to January 1, 1881	59,023	
	$30,833,004	$9,763,136

Less amounts of abatements.....	$4,294,980	$4,374,015
" " collected upon....	13,066,789	2,354,164
Amount remaining uncollected.	13,171,235	3,034,957
	$30,833,004	$9,763,136

1879.	Real.	Personal.
Amount of assessment unpaid January 1, 1880.....	$64,708,866	$19,205,432
Amount of new assessment.....	362,684	147,253
" " refunds to January 1, 1881.....	127,535	.....
	$65,199,085	$19,352,685
Less amount of abatements.....	$4,465,078	$5,032,889
" " collected upon.....	36,756,217	5,130,320
Amount remaining uncollected.	23,977,790	9,189,476
	$65,199,085	$19,352,685

1880.	Real.	Personal.
March 1. Amount of assessment remaining as portion of assessment of 1879.....	$181,781,705	$39,207,992
Amount of new assessments, less abatements on appeals.....	3,618,201	3,099,625
Amount of new assessments.....	1,616,718	653,847
Amount of new assessments, incorporated companies.....	.....	22,144,903
	$187,016,624	$65,106,367
Less amount of abatements.....	$3,965,228	$6,177,125
" " collected upon.....	127,090,333	42,806,246
Amount remaining uncollected.	55,961,063	16,122,996
	$187,016,624	$65,106,367

RECAPITULATION.

Amount for different years charged to the City Collector, January 1, 1881

1877, real	$ 699,481	
" personal	1,693,572	
		$2,393,053
1878, real	$13,471,235	
" personal	3,034,957	
		16,506,192
1879, real	$23,977,790	
" personal	9,189,476	
		33,167,266
1880, real	$55,961,063	
" personal	16,122,996	
		72,084,059
		$124,150,570

TABLE B.

The number of permits issued from January 1st, 1880, to December 31st, 1880, for new buildings and improvements, was fourteen hundred and ninety-six (1496), and apportioned among the several wards as follows:

Wards.	New Improvements.	Additional Improvements.	Total.
1	90	72	162
2	20	38	58
3	4	26	30
4	14	20	34
5	11	26	37
6	10	27	37
7	106	29	135
8	47	14	61
9	33	19	52
10	25	34	59
11	31	23	54
12	57	20	77
13	16	14	30
14	31	20	51
15	12	21	33
16	36	30	66
17	101	27	128
18	37	32	69
19	222	37	259
20	45	19	64
	948	548	1496

TABLE C.

BALTIMORE, January 1, 1881.

To the Honorable the Judges of the Appeal Tax Court:

The following table, respectfully submitted, will show the number of new and additional improvements, as assessed by me in the different wards, with the cash value thereof, from January 1st, 1880, to December 31st, 1880:

Wards.	New Improvements.	Additional Improvements.	Cash Value.
1	90	71	$97,045
2	14	37	39,400
3	2	26	11,900
4	9	16	22,350
5	11	24	31,025
6	23	25	28,400
7	103	31	71,800
8	46	18	75,750
9	23	16	172,900
10	23	26	566,070
11	15	19	89,350
12	39	24	141,600
13	25	13	60,075
14	21	26	70,250
15	7	23	26,375
16	26	32	65,275
17	108	24	586,500
18	32	39	61,480
19	133	43	250,710
20	34	13	52,200
	784	546	$2,514,455

Very respectfully,

MICHAEL ROCHE, *Assessor.*

BALTIMORE, January 1, 1881.

To the Honorable Judges of the Appeal Tax Court:

The undersigned respectfully submit the following report, in reference to the re-assessment of property made by us, under your instructions.

During the time the books were open—from the 1st day of May to the 31st day of October—to receive applications from parties considering themselves aggrieved by assessments upon their property, there were received 1650 applications. Abatements have been recommended on 795, amounting to $543,500, and 855 applications dismissed.

We have also examined and adjusted the property of the passenger railways, gas companies, charitable and benevolent institutions, which required revision and re-assessment, under the recent decisions of the Court of Appeals.

We are now engaged in reviewing, for the purpose of re-assessing, the property which we believe to have increased materially in value since the last general assessment, and which we will have completed in time to be added to the taxable basis for 1881.

Very respectfully,

WM. W. ORNDORFF,
HENRY DUVALL,
Assessors.

JAS. F. DEALE, *Clerk.*

BAILIFF'S DEPARTMENT,

Baltimore, January 1, 1881.

To the Honorable Judges of the

Appeal Tax Court for Baltimore City:

GENTLEMEN:

The undersigned reports the Bailiff's Department as having made assessments of personal property to March 1, 1880, of the following amount: four million and ninety-two thousand nine hundred and sixty-nine dollars ($4,092,969.)

Respectfully submitted,

MICHAEL P. CAUGHY, *Bailiff.*

REFUNDS.

From January 1, 1880, to December 31, 1880, there have been one hundred and thirty-one (131) orders for refunding of taxes, given generally to parties who have paid in error, either as double payments or on wrong property.

TRANSFERS.

From January 1, 1880, to December 31, 1880, there have been four thousand and sixteen (4016) transfers of property.

Whilst our abatements for the years 1879 and 1880 aggregate, apparently, some ten millions of dollars (10,000,000), they are, in reality, not so large; much of this property made exempt by the law of 1878 *has re-*

mained upon our books, awaiting, in the first place, the decision of the Court of Appeals; and secondly, the *proper application of those interested to have them stricken off.* These embrace churches, parsonages, theological and Biblical institutions, asylums, hospitals, as well as charitable institutions of every kind, nature and description, together with all that claim to be in any sense benevolent.

Much of our reduction too has been owing to abatements by the Comptroller and Treasurer, after the assessment had been made by the State Tax Commissioner and reported to the Appeal Tax Court, and gone into our basis. These abatements, in many instances, have been quite large.

Another large item has grown out of the recent adjustment of the Northern Central and Union Railroad Companies' assessment, which has remained upon our books under litigation and legislation for several years past.

These are matters, however, not under our control, and for which the Appeal Tax Court is not responsible. They are controlled by those to whom we are subordinate, and we simply note them, to account for the constant diminution of our assessable basis.

We regret, that notwithstanding the Legislature has met and adjourned since our last report, nothing has been done to remedy the evils that exist, or to improve in any way our tax system. Our laws are not only imperfect, but very unjust to the great majority of our people, and most unsatisfactory to those whose duty it is to execute them. It is to be regretted, that those

who are delegated for the purpose of making laws to meet the requirements of the public, should so utterly disregard the wishes of the people in matters of such vital importance. Meetings have been held in many localities throughout the State, and earnest appeals have been made by the people everywhere for proper and just tax laws, asking, at least, for some legislation to correct the present evils, and yet their appeal has met with no consideration. Some of our laws are really inexplicable, viewed from an impartial or disinterested standpoint. For instance, the fundamental principle of all government is, that the public burden shall be borne by all the members thereof, in proportion to their means; still, in the face of this, we find those *most able* to pay, pay in proportion *the least.* Again, it is held that personal property follows the owner. Notwithstanding there has been decisions by the United States Supreme Court, we believe to the contrary, i. e., the situs of property is *where located.* Agreeably to the former, an individual may own ships, registered in the city of Baltimore, plying to and from our port, embracing all its advantages, and yet pay his taxes at the *port of Towsontown;* or, on the other hand, may acquire *here, by daily pursuit,* wealth, *lock it up in our* safety deposit vaults, exact the city's protection, and claim a residence in Baltimore, Howard, or some adjoining county, and *pay there* for the obligation imposed upon the city to take care of it here; or further, may own the capital and conduct a bank or safety deposit company, or both, in our city, competing with other institutions of a similar character, (that pay city taxes,) and still pay nothing for either the franchise or pro-

tection, upon the technicality that they are non-residents, and pay elsewhere. If this is law, we would like to understand the justification of it, for we are frank to confess it is beyond our logic. Surely there is neither reason or justice in such laws, and yet they remain from year to year unchanged. As we said in our former report, we are at a loss to discern the justice of those doing business in our city, enjoying all its advantages, claiming an exemption from taxation upon the plea that they are non-residents. If, however, they *can* and will elect to *pay taxes* elsewhere, they should seek to make their money elsewere, and not compete with our citizens. We think, and repeat again what we have heretofore stated, that a proper and well regulated income tax would correct many of the present evils and inequalities of taxation, and give greater satisfaction to all when once properly adjusted. We desire to call your especial attention to our present exemptions, which, owing to selfishness and loose legislation, are incredible; many of which are extremely unjust in their partial character, and cause great dissatisfaction, as well as complaint. We refer particularly to institutions corporated and exempted for the benefits of particular bodies, which force, indirectly, the aid of their maintenance upon those who are in no way interested, or in any sense benefited by them.

Their privileges and benefits are enjoyed exclusively by their own members, and they should be sustained by *them*.

There is no equity in such laws, and we feel satisfied, if tested in our Courts, would be declared unconstitutional.

We, of course, have no reference to exemptions of a high public character, granted for the promotion and encouragement of enterprises that redound to the general welfare, and which more than recompense for the apparent loss of revenue. But even those should have a period of limitation. We believe in taxing *everything* properly *within our territory,* and every individual equally, and making the burden as light as possible to all *citizens.*

Respectfully submitted,

C. W. LEWIS,
JAMES E. CARR,
AB'M B. PATTERSON.

H. P. MOWINCKEL, *Chief Clerk.*
THO'S K. MCCORMICK, *Assistant Clerk.*

ANNUAL REPORT

OF THE

WATER DEPARTMENT,

TO THE

MAYOR AND CITY COUNCIL OF BALTIMORE,

FOR THE

FISCAL YEAR ENDING DECEMBER 31st, 1880.

Officers of the Water Board,

JANUARY 1st, 1881.

Commissioners :

HON. FERDINAND C. LATROBE, MAYOR,
Ex-Officio President.

GEORGE U. PORTER, *Secretary.*
JOHN F. HUNTER,
GEORGE P. THOMAS,
THOMAS BOND,
WM. A. FISHER,
N. RUFUS GILL.

Registrar's Department :

SAM'L KIRK, *Water Registrar.*
JAS. A. MARRIAN, *General Book-Keeper.*
JAS. S. ETCHBERGER, *Cashier.*
B. F. MULLIKIN, *Clerk of Errors.*
E. A. HOGG, *Ledger Clerk.*
E. J. EDWARDS, "
JAS. J. C. SCULLY, "
JNO. GIBSON, "
THOS. H. BLICK, *Clerk of Delinquents.*
BENJ. PRICE,
GEO. A. COLEMAN,
JNO. D. ALCOCK,
D. G. CARLISLE,
S. L. AUERBACH,
W. A. MALONEY,
District Inspectors and Bill Distributors.
GEORGE W. EMMERICH, *Hydrant Inspector.*

Engineer's Department :

JAMES CURRAN, *Water Engineer.*
ROBERT K. MARTIN, *Civil Engineer.*
RICHARD D. MURPHY, *Engineer's Clerk.*

REPORT.

OFFICE WATER DEPARTMENT—CITY HALL,

Baltimore, January, 1881.

To the Honorable the Mayor
and City Council of Baltimore:

Under the ordinance providing for the Water Board, the Commissioners herewith present to your Honorable Body their report, showing the operations of the Department for the year ended 31st December, 1880.

Annexed is given the gross receipts and expenditures of the Board, and for what account the disbursements are charged.

FINANCIAL.

Receipts from all sources during the year 1880 were	$1,048,227 85	
Balance January 1, 1880.....	418,697 14	
		$1,466,924 99
Disbursements, 1880.....	$1,355,424 90	
To credit of Gunpowder Permanent Supply, December 31, 1880.....	112,975 07	
Water Registrar's cash.....	1,489 39	
	$1,469,889 36	
Less revenue account overdrawn.....	2,964 37	
		$1,466,924 99

The disbursements for the year were chargeable as follows:

Gunpowder Permanent Supply	$126,241 12
Permanent Supply distributing mains	275,821 47
Lake Clifton	92,516 75
Working expenses	*87,419 31
Distributing mains	18,192 20
Lake Roland, dredging	3,556 98
Water meters, new	4,567 45
Fire-plugs, pumps and fountains	4,049 80
Returned money	1,905 68
Gunpowder real estate	1,641 15
Tools and fixtures	322 99
Twelve months' interest on Water Stock	439,190 00
Total	$1,355,424 90

REVENUE.

The net revenue for the year from water rents, meter supplies, plumbing, &c, after deducting the sum of $28,453.15—discount allowed on 1880 bills—amounted to $606,879.06, as against, for the previous year, $552,-877.27—showing an increase of net revenue for 1880 of $54,001.79. In addition to the above receipts, there were $25,685 from sale of Gunpowder real estate, making the gross revenue of the Department for 1880 $632,564.06.

*An increase of $20,417.15 over same for 1879, of which $11,849.42 was occasioned by increased cost of pumping from Temporary and for High Service; $4,653.38 for additional work in the Registrar's Department, to improve its efficiency and to enlarge the revenue of the Department; the balance was on account of repairs at Mount Royal and Lake Roland.

The Board have, from the net revenue derived from water rents, been enabled to meet all the ordinary expenses of the Department, besides paying the interest on all the Water Stock issued. Amount required for interest the past year was $439,190—an increase over 1879 of $35,230. All the four millions appropriated for the Gunpowder Permanent Supply being now issued, the annual interest required to be paid in the future will be $452,630, to meet which and the ordinary working expenses of the Department will necessitate the maintenance of the revenue at about the figures of the past year.

The surplus revenue of the Board, which, on the 1st of January, 1880, amounted to $293,848.48, is now exhausted, having been expended on the Permanent Supply distributing mains and for the prosecution of the work upon the Clifton property, neither of which were anticipated in making the appropriation for the new work, but without which the water from the Gunpowder could not be availed of for supplying the people. In the aggregate, the Board has expended to December 31, 1880, for Permanent Supply distributing main, $340,625.32, and for Lake Clifton, $134,632.70, together making $475,258.02 expended since May, 1879, to date, for new work, out of the surplus revenue of the Department.

METERS IN SERVICE

Number in all 524, of which 72 were placed in 1880 and 54 in 1879. The registered consumption of water by meters for 1880 was 629,630,175 gallons, against 496,-

032,105 gallons in 1879, revenue from which amounted for the past year to $72,483.52, against $64,230.86 in 1879—an increase of $8,252.66, notwithstanding the reduction in price made by the Board from 15 to 12 cents per 1000 gallons for the last half of the year. But for the current year the charge for water served through meters has been still further reduced by the Board, under recent authority given it by the City Council, to *eight cents* per 1000 gallons, and by which the revenue of the Department must, for 1881, be considerably diminished.

PERMANENT SUPPLY DISTRIBUTING MAINS.

The 40-inch pipe line was laid within the year, along Washington and Lombard streets as far west as Paca, a distance of 3 miles and 1,648 feet. There remains to be done, when the weather will permit, connections to be made at all the street-crossings, commencing at Paca street, and thence east over the entire line. Also, the laying of a 20-inch main along Eastern avenue to lower Canton and city limits. This pipe is already on the ground.

MECHANICAL DEPARTMENT.

The estimated current value of the work turned out in the shop is placed by the engineer at $12,402.20, done at a cost for wages paid amounting to $6,618.32, and other operating expenses, including coal, of $1,516.11, leaving as net profits $4,267.77. More than one-half of the work of the shop the past year was for account of the permanent supply.

TEMPORARY PUMPS

Were worked from July 4 to November 16, sending from the Gunpowder, at Meredeth's Ford to Lake Roland, 1,053½ millions gallons of water, which exceeded by upwards of 118 millions the maximum capacity of the city's aggregate storage. In this connection the board are compelled to admit that the temporary works are entitled to the credit of having saved the city from a water famine the past summer and early fall. By its aid no restrictions in the use of water were deemed necessary by the board, and the consumption during the summer months reached 25 millions per day; but to supply which, all the resources of the department were taxed to their utmost for many weeks. And this experience likewise demonstrates the necessity for the completion of the new works, with all possible dispatch.

Permanent Supply Works are drawing near to their completion. Lock Raven and the whole line of tunnel from the dam on the Gunpowder to Lake Montebello are finished, and the final estimates of the contractors settled. Lake Montebello is also quite finished, being now ready to receive its supply of water from the Gunpowder.

The dam is the only backward portion of the work, but the contractors are anticipating its completion in 90 working days. It being desirable to introduce the Gunpowder at as early a date as possible, operations at Clifton were confined to the construction of the conduit in open cut excavation from the southern end of the tunnel to the gate chambers at Lake Clifton; the

building of the gate chambers, and the laying of the 40-inch main to the city boundary. This conduit is completed, and work on the gate chambers will be resumed as soon as the weather permits.

For fuller and more complete information in regard to the details of the business of the department for the past year, the Board invites your attention to the accompanying reports of its chief officers.

Respectfully submitted,

Signed: FERDINAND C. LATROBE,
Ex-Officio President.

GEORGE U. PORTER,
Secretary.

JOHN F. HUNTER,
GEORGE P. THOMAS,
THOMAS BOND,
WILLIAM A. FISHER,
N. RUFUS GILL,
Commissioners.

Water Registrar's Report.

REPORT.

WATER REGISTRAR'S OFFICE—CITY HALL.

Baltimore, December 31, 1880.

To the Honorable the President and
Members of the Water Board:

GENTLEMEN:

As required by City Ordinance No. 10, section 8, I herewith present my first annual report with accompanying statements, showing receipts and disbursements for the year ending December 31, 1880, also other undermentioned statements, altogether showing in detail the financial transactions of my department for the year 1880.

The receipts for the year were as follows:

From Water Rents, 1880	$348,065 59
" " " 1879	151,972 57
" " " 1878	19,816 67
" " " 1877	15,441 16
" Meter "	72,483 52
	$607,779 51
Less discount on 1880 rents	28,453 15
Amount carried forward	$579,326 36

Amount brought forward	$579,326 36
From Plumbing bills	20,192 71
" Interest on back bills	6,350 06
" Real estate	3,935 00
" Distributing main	421 34
" Lake Roland	148 53
" Conscience fund	16 00
" Pump house	10 95
" Gunpowder real estate	21,750 00
" Hampden reservoir	55 00
" Lake Clifton	33 86
" Gunpowder Permanent Supply	15 00
" Druid lake	90 00
" Mount Royal	12 00
" Permanent supply distributing main	7 25
" Profit and loss	200 00
Received from sale of water stocks	415,663 79
Net receipts	$1,048,227 85
Add amount of discount allowed on 1880 water rents	28,453 15
Gross receipts	$1,076,681 00

The disbursements for the year were as follows:

Paid Plumbing department	$10,109 26
" Repairs	3,462 26
" Lake Roland	8,553 65
" Salaries Registrar's Department	19,253 10
" " Engineer's "	9,412 13
" Pump house	8,154 12
Amount carried forward	$58,944 52

Amount brought forward	$58,944 52
Paid Temporary supply	13,692 28
" Water meters	3,397 59
" Current expenses	3,542 51
" Druid lake	2,982 14
" Printing and stationery	1,125 06
" High Service reservoir	80 89
" Hampden "	487 80
" Mound Royal "	2,885 20
" Telegraph line	281 32
Working expenses	$87,419 31
Gunpowder Permanent Supply	426,241 12
Permanent Supply distributing main	275,821 47
Lake Clifton	92,516 75
Distributing main	18,192 20
Lake Roland, dredging	3,556 98
New water meters	4,567 45
Fire plugs, pumps and fountains	4,049 80
Water rents refunded, paid in error	1,905 68
Gunpowder real estate	1,355 99
Real estate	285 16
Tools and fixtures	322 99
12 months' interest on water stock	439,190 00
Total disbursements for the year 1880	$1,355,424 90

The statements show the working of my department during my predecessors time of this year, viz, to August, and also the working for the balance of the year under my own supervision.

The statements referred to are as follows:

A. Water Registrar's cash account.

B. Water Registrar's disbursement account.

C. Trial balance general ledger.

D. Balance sheet general ledger.

E. Receipts.

F. Disbursements.

G. New supplies.

H. Abatements.

I. Estimated revenue for 1881.

K. Balances remaining on the books of the department December 31, 1880.

Respectfully submitted,

SAM'L KIRK,

Water Registrar.

STATEMENTS.

STATEMENT A.

Water Registrar's Cash Account for the year 1880.

	DR.	CR.
To balance on hand December 31, 1879	$1,296 26	
To water rents 1880 ..... $348,065 59		
Less discount on 1880 rents 28,453 15		
	319,612 44	
To water rents 1879	151,972 57	
" " 1878	19,816 67	
" " 1877	15,441 16	
To meter rents	72,483 52	
To plumbing department	20,192 71	
To interest on back water rents	6,350 06	
To real estate	3,935 00	
To distributing main	421 34	
To Lake Roland	148 53	
To conscience fund	16 00	
To pump house	10 95	
To Gunpowder real estate	21,750 00	
To Hampden reservoir	55 00	
Amount carried forward	$633,502 21	

STATEMENT A—Concluded.

	DR.	CR.
Amount brought forward...	$633,502 21	
To Lake Clifton.....	33 86	
To Gunpowder Permanent Supply.....	15 00	
To Druid Lake.....	90 00	
To Mount Royal reservoir...	12 00	
To Permanent Supply distributing main.....	7 25	
To profit and loss.....	200 00	
To a sale of 5 per cent. Water Stock.....	415,663 79	
By deposits with City Register from January 2d to December 31st, 1880.....		1,048,034 72
By balance on hand December 31st, 1880.....		1,489 39
	$1,049,524 11	$1,049,524 11

STATEMENT B.

Water Registrar's Disbursement Account for the year 1880.

	DR.	CR.
To warrants on City Comptroller from January 3d to December 31st, 1880....	$1,355,424 90	
By Gunpowder Permanent Supply.....		$426,241 12
By Permanent Supply distributing main.....		275,821 47
By Lake Clifton.....		92,516 75
By distributing main.....		18,192 20
By Lake Roland.....		12,110 63
By salaries Registrar's department.....		19,253 10
By salaries Engineer's department.....		9,412 13
By plumbing department ..		10,109 26
By pump house..		8,154 12
By repairs.....		3,462 26
By Temporary Supply.....		13,692 28
By water meters.....		7,965 04
By current expenses.....		3,542 51
By Druid Lake.....		2,982 14
Amounts carried forward...	$1,355,424 90	$903,455 01

STATEMENT B—Concluded.

	DR.	CR.
Amounts brought forward.	$1,355,424 90	$903,455 01
By pumps and fountains....		2,187 15
By fire plugs.....		1,862 65
By returned money.....		1,905 68
By printing and stationery.		1,125 06
By real estate		285 16
By Gunpowder real estate..		1,355 99
By High Service reservoir..		80 89
By Hampden reservoir.....		487 80
By Mount Royal reservoir..		2,885 20
By telegraph line.....		281 32
By tools and fixtures.....		322 99
By twelve months' interest on Water Stock.....		439,190 00
	$1,355,424 90	$1,355,424 90

STATEMENT C.

DR. *Trial Balance General Ledger*

7	Real estate and water rights	$772,041 98
9	Construction of new works	2,775,551 95
34	Mayor and City Council	110,010 70
65	Water Registrar's cash account	1,489 39
85	Permanent Supply distributing main.	340,618 07
105	Distributing main	1,637,746 10
125	Repairs	3,462 26
187	Fire plugs	1,862 65
199	Pumps and fountains	2,187 15
213	Water meters	27,965 04
220	Telegraph line	281 32
224	Lake Roland	11,962 10
234	Druid Lake	2,892 14
245	High Service reservoir	80 89
254	Hampden "	432 80
260	Mount Royal "	2,873 20
268	Pump house	8,143 17
270	Tools and fixtures	5,322 99
274	Temporary supply	13,692 28
285	Current expenses	3,542 51
290	Printing and stationery	1,125 06
296	Salaries Registrar's Department	19,253 10
292	" Engineer's "	9,412 13
303	Permanent Supply	4,008,803 72
313	Lake Clifton	134,598 84
319	Gunpowder real estate and water rights	220,240 20
320	Returned money	1,905 68
341	Discount on 1880 water rents	28,453 15
		$10,145,950 57

STATEMENT C.

December 31st, 1880. CR.

2	City 6 per cent. Water Stock	263,000 00
3	" 5 " "	8,737,000 00
4	Profit and loss	521,721 55
5	Conscience fund	16 00
164	Plumbing department	10,083 45
352	1880 Water rents	348,065 59
371	1879 " "	151,972 57
400	1878 " "	19,816 67
436	1877 " "	15,441 16
562	Meter rents	72,483 52
602	Interest	6,350 06
		$10,145,950 57

STATEMENT D.

DR. *Balance Sheet General Ledger,*

7	Real estate and water rights	$772,041 98
9	Construction of new works	2,775,551 95
34	Mayor and City Council	110,010 70
65	Water Registrar's cash account	1,489 39
99	Permanent Supply distributing main.	340,618 07
105	Distributing main	1,637,746 10
213	Water meters	23,310 23
270	Tools and fixtures	5,322 99
303	Permanent Supply	4,008,803 72
313	Lake Clifton	134,598 84
319	Gunpowder real estate and water rights	220,240 20
		$10,029,734 17

STATEMENT D.

January 1, 1881. Cr.

2	City 6 per cent. Water Stock.....	$263,000 00
3	" 5 " "	8,737,000 00
4	Profit and loss	1,029,7[illegible]4 17
		$10,029,734 17

STATEMENT G.

New Supplies for the year 1880.

505	Houses,	at $5 00...	$2,525 00	
379	"	" 7 50...	2,842 50	
257	"	" 9 00...	2,313 00	
112	"	" 12 00...	1,344 00	
31	"	" 14 00...	134 00	
17	Warehouses,	" 6 00...	102 00	
8	"	" 8 00...	64 00	
37	"	" 10 00...	370 00	
				$9,994 50
285	Baths,	at $2 00...	$570 00	
234	Water Closets,	" 2 00...	468 00	
149	Hose,	" 3 00...	447 00	
266	Horses,	" 1 50...	399 00	
102	Carriages,	" 1 50...	153 00	
24	Cows,	" 1 00...	24 00	
				2,061 00
		SPECIALS.		
18	Bars,	at $3 00...	$54 00	
9	"	" 5 00...	45 00	
8	Barbers,	" 3 00...	24 00	
	Amounts carried forward...		$123 00	$12,055 50

STATEMENT G—Continued.

	Amounts brought forward...			$123 00	$12,055 50
3	Extra families,	at	2 00...	6 00	
6	Forges,	"	2 50...	15 00	
2	Butcheries,	"	5 00...	10 00	
6	"	"	10 00...	60 00	
1	Photographer,	"	10 00...	10 00	
4	Drugs,	"	3 00...	12 00	
10	Churches,	"	10 00...	100 00	
3	Bakeries,	"	3 00...	9 00	
1	Greenhouse,	"	15 00...	15 00	
1	"	"	20 00...	20 00	
1	Florist,	"	5 00..	5 00	
1	Fountain,	"	10 00...	10 00	
4	Soda Fountains,	"	5 00...	20 00	
8	Urinals,	"	1 50...	12 00	
1	Oyster establm't,	"	15 00...	15 00	
1	" "	"	20 00...	20 00	
1	" "	"	25 00...	25 00	
2	Schools,	"	12 00..	24 00	
1	Can Factory,	"	7 50...	7 50	
1	Candy "	"	10 00...	10 00	
1	Solder "	"	10 00...	10 00	
1	Shoe "	"	15 00...	15 00	
1	Paper Bag Fact'y,	"	20 00...	20 00	
	Amounts carried forward...			$573 50	$12,055 50

STATEMENT G—Concluded.

	Amounts brought forward...						$573 50	$12,055 50
1	Stone Manufact'r,	at	25	00...			25 00	
1	Laundry,	"	10	00...			10 00	
3	Coopers,	"	5	00...			15 00	
1	Pickling House,	"	10	00...			10 00	
1	Public Bath,	"	10	00...			10 00	
1	Errick Pump,	"	6	00...			6 00	
3	Specials,	"	20	00...			60 00	
3	"	"	32	00...			96 00	
1	"	"	14	00...			14 00	
1	"	"	30	00...			30 00	
1	1½ H. P. Boiler,	"	5	00...			7 50	
2	3 " "	"	"	...			30 00	
4	4 " "	"	"	...			80 00	
5	6 " "	"	"	...			150 00	
1	7 " "	"	"	...			35 00	
3	8 " "	"	"	...			120 00	
2	10 " "	"	"	...			100 00	
1	13 " "	"	"	...			65 00	
1	20 " "	"	"	...			100 00	
3	22 " "	"	"	..			330 00	
1	25 " "	"	"	...			125 00	
5	35 " "	"	"	...			875 00	
								$2,867 00
Producing a yearly revenue of...								$14,922 50

STATEMENT H.

Abatements condensed for the year 1880.

	1877.		1878.		1879.		1880.	
Vacancies	83	$941 86	145	$1,637 97	417	$4,343 52	304	$2,099 99
Baths	....	.....	2	4 00	7	14 00	74	147 33
Bars	1	3 00	....	.....	2	6 00	10	27 84
Water closets	....	.....	1	2 00	7	14 00	44	86 75
Hose	5	15 00	7	21 00	22	61 50	153	451 25
Horses	5	7 50	20	28 75	52	78 00	349	449 01
Carriages	1	1 50	8	10 75	16	23 50	98	141 67
Extra families	....	.....	....	.....	5	10 00	6	12 00
Rents reduced	2	8 00	7	19 00	13	61 50	67	331 97
Rents duplicat'd & torn down	42	426 42	54	558 95	108	956 20	176	2,893 14
Urinals	....	.....	....	.....	....	.....	5	7 25
Cows	....	.....	....	.....	3	3 50	41	40 50
Specials	7	36 00	15	174 16	39	588 79	171	2,008 42
		$1,439 28		$2,456 58		$6,160 51		$8,697 12

Total amount of abatements for the year..... $18,753 49

STATEMENT E.

Receipts of the Water Department for the year 1880.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
1880 Water Rents	$76,967 77	$174,261 37	$23,398 47	$10,056 76	$6,161 70	$5,552 49	$4,253 00	$4,937 48	$7,661 75	$6,584 90	$8,359 26	$19,870 64	$348,065 59
1879 "	23,063 18	15,192 55	10,816 05	36,110 25	23,408 78	13,193 77	14,628 12	3,930 23	2,957 15	2,120 42	3,400 55	3,151 52	151,972 57
1878 "	1,316 26	1,268 09	2,010 00	2,623 54	3,202 99	2,207 06	2,512 70	1,005 00	928 49	842 06	1,087 73	812 75	19,816 67
1877 "	616 26	584 88	835 39	1,562 82	5,545 93	1,214 71	1,480 12	1,036 25	1,498 11	903 68	1,091 34	1,071 67	15,441 16
Meter Rents	17,657 66		194 47	18,651 84	18 97	64 53	17,313 27	788 76	61 68	17,443 84	152 83	135 67	72,483 52
Plumbing Department	796 21	1,113 76	1,520 57	970 67	1,282 63	1,589 20	1,653 62	4,608 01	2,050 08	978 13	1,831 57	1,798 26	20,192 71
Real Estate	250 00		3,185 00									500 00	3,935 00
Distributing Main	99 64	12 00	6 00		12 00	30 00				57 09	22 26	182 35	421 34
Lake Roland	14 75	15 00				7 78		28 00			75 75	7 25	148 53
Conscience Fund	16 00												16 00
Pump House	5 00							5 95					10 95
Interest	158 14	239 17	363 45	972 81	1,134 18	691 28	883 31	358 31	408 50	333 26	419 70	387 95	6,350 06
Gunpowder Real Estate			250 00	100 00		250 00	75 00		250 00		1,000 00	19,825 00	21,750 00
Hampden Reservoir						20 00		10 00	25 00				55 00
Lake Clifton									2 47		31 39		33 86
Gunpowder Permanent Supply									15 00				15 00
Druid Lake									35 00		50 00	5 00	90 00
Mount Royal Reservoir									10 00		2 00		12 00
Perman't Supply distributing main											2 00	5 25	7 25
Profit and Loss												200 00	200 00
	$120,960 87	$192,686 82	$42,579 40	$71,048 69	$38,767 18	$24,820 82	$42,799 14	$16,707 95	$15,903 23	$29,263 38	$17,526 88	$47,953 31	$661,017 21
Received from sale of ($378,800.00, 1894, 5 per cent.) Water Stock for Permanent Supply													415,663 79
Total Receipts for the year													$1,076,681 00

STATEMENT F.

Disbursements of the Water Department for the year 1880.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Gunpowder Permanent Supply	$41,329 63	18,891 73	$23,690 55	$21,131 73	$29,152 87	$59,424 71	$38,931 34	$31,165 68	$28,770 37	$53,704 96	$18,163 90	$61,883 65	$426,241 12
Permanent Supply Distributing Main	23,710 38	1,989 65	11,547 52	20,616 30	34,795 08	25,113 14	25,060 02	41,669 60	19,145 64	28,632 77	17,571 19	25,800 18	275,821 47
Lake Clifton	5,953 09	3,846 09	3,943 57	3,848 22	6,435 50	9,638 65	9,063 12	11,344 89	11,645 82	11,594 14	8,587 52	6,616 25	92,516 75
Distributing Main	3,925 39	1,193 93	1,142 43	3,278 48	835 87	591 46	731 04	2,083 49	1,084 18	975 29	1,600 49	750 15	18,192 20
Lake Roland	476 69	980 71	640 37	1,305 23	1,211 49	4,324 17	296 04	238 02	227 19	590 07	757 23	1,063 42	12,110 63
Salaries Registrar's Department	1,349 97	1,216 62	1,216 62	1,216 62	1,216 62	1,633 27	1,716 60	1,863 11	1,896 64	1,966 60	2,191 60	1,768 83	19,253 10
" Engineer's "	790 33	790 33	790 33	790 33	798 33	792 17	798 33	790 33	790 33	783 33	792 16	755 83	9,412 13
Plumbing Department	624 76	476 93	616 97	985 37	934 27	1,115 56	1,326 04	973 80	664 02	805 70	839 97	745 87	10,109 26
Pump House	1,190 34	489 99	91 64	222 15	2,747 60	274 58	189 23	107 89	146 92	140 48	71 89	2,481 41	8,154 12
Repairs	408 76	368 59	327 34	251 71	272 74	143 00	287 65	203 42	266 92	325 91	238 31	367 91	3,462 26
Temporary Supply	162 25	195 60	138 00	136 50	180 00	175 33	338 81	603 75	692 65	3,128 03	4,235 50	3,706 46	13,692 28
Water Meters	835 74	556 01	492 78	874 39	302 76	228 85	682 04	252 48	1,447 55	1,113 50	525 04	653 90	7,965 04
Current Expenses	713 79	599 38	234 20	221 24	217 34	199 53	249 54	274 69	169 09	189 49	204 85	269 37	3,542 51
Druid Lake	279 99	173 70	150 26	167 54	265 60	351 83	352 24	297 27	241 03	274 23	246 70	181 75	2,982 14
Pumps and Fountains	161 27	129 51	174 49	240 32	268 78	397 52	225 35	167 68	95 87	126 88	98 50	101 00	2,187 15
Fire Plugs	244 27	178 17	360 07	378 53	196 10	73 83	74 96	42 86	28 48	50 60	27 28	207 50	1,862 65
Returned Money	62 31	188 95	268 31	295 10	137 55	224 05	82 01	203 74	65 59	119 88	91 28	167 91	1,905 68
Printing and Stationery	92 45		71 83	156 97	143 62	48 40	235 59	130 53	73 04	7 55	110 83	54 25	1,125 06
Real Estate	140 00			81 66		23 50		40 00					285 16
Gunpowder Real Estate			401 14	299 80	216 74	139 00	178 05	17 50			79 50	24 26	1,355 99
High Service Reservoir				1 00	49 50	15 00	15 39						80 89
Hampden "		30 23	10 67	31 38	59 75	27 25	71 92	4 45	222 90	29 25			487 80
Mount Royal "			10 67	15 00	18 07	20 19	5 36	20 50	39 92	2,598 43	92 13	64 93	2,885 20
Telegraph Line	10 50	135 00					43 82				92 00		281 32
Tools and Fixtures	35 32	18 91	43 01	34 39	106 16	21 58	23 07	12 31	5 25	10 17	3 65	9 17	322 99
	$82,497 14	$32,449 43	$46,362 77	$56,579 96	$80,742 34	$104,996 57	$80 977 56	$93 506 97	$67,719 40	$107,107 26	$56,621 53	$107,673 98	$916,234 90
Paid Twelve Months Interest on $8,681,200.00 Water Stock													439,190 00
Total Disbursements for the year													$1,355,424 90

STATEMENT I.

Estimated Revenue for 1881.

11,483	Houses	at	$5 00	$57,415 00	
13,492	"	"	7 50	101,190 00	
13,297	"	"	9 00	119,673 00	
5,625	"	"	12 00	67,500 00	
2,955	"	"	14 00	41,370 00	
307	Warehouses	"	6 00	1,842 00	
449	"	"	8 00	3,592 00	
1,061	"	"	10 00	10,610 00	
48,669					$403,192 00
10,195	Baths	"	2 00	$20,390 00	
6,102	Water closets	"	2 00	12,204 00	
3,206	Hose	"	3 00	9,618 00	
4,727	Horses	"	1 50	7,090 50	
1,280	Carriages	"	1 50	1,920 00	
617	Cows	"	1 00	617 00	
199	Extra families	"	2 00	398 00	
					52,237 50
3,597	Special supplies and meters....				63,101 89
					$518,530 39

STATEMENT K.

Balances remaining on the books of the Department, December 31, 1880.

1880, water rents	$176,173 94
1879, "	18,734 88
1878, "	7,986 59
Meter rents	486 42
Work bills	3,941 86
	$207,323 69

Water Engineer's Report.

REPORT.

OFFICE OF THE WATER ENGINEER,

Baltimore, January 1, 1881.

To the President and Members
of the Water Board:

GENTLEMEN:

In accordance with ordinance, I am required to report annually, in full, the condition of the works under the charge of the Water Engineer; the amount expended during the year, and all other information that may be required by the Water Board. I therefore respectfully report as follows:

In January, 1880, the department was engaged in finishing the 20-inch pipe line on North avenue, 10-inch on Aisquith street, and removing old 10-inch on Point lane; also, in laying 6-inch pipe on Fort avenue, to serve dry dock.

In February, commenced operations again on the 40-inch pipe line, where we were nearing Monument, on Washington street. This work consists of two lines as far as Lombard street, when one line continues on Lombard, to near Eastern avenue, connecting with 20-inch at Eastern avenue, and 20-inch at Pratt street.

The other line is advanced west on Lombard to Paca street, where it will connect to 20-inch. The latter line is contemplated to be reserved for the supply west of the Falls, and the former east of the Falls. Branches have been provided accordingly at the street crossings, twenty-seven in number, weighing $31\frac{1460}{2240}$ tons; also, eight breeches pipe, $33\frac{1280}{2240}$ tons; and there is connected eleven 4-inch, twenty 6-inch, four 10-inch, and eight 23-inch stops; therefore, the line, including branches, breeches pipes and 40-inch pipes laid in 1880, is $3\frac{1648}{5280}$ miles in length, and in weight, $5026\frac{1716}{2240}$ tons. The following contractors furnished the material:

John F. Starr, from old contract	$101\frac{1710}{2240}$ tons.
" " new "	$2917\frac{289}{2240}$ "
A. H. McNeal & Bro., from new contract	$1942\frac{1157}{2240}$ "
H. A. Ramsay, branches	$31\frac{1160}{2240}$ "
Poole & Hunt, breeches pipe	$33\frac{1280}{2240}$ "
	$5026\frac{1716}{2240}$ "

It will be remembered that it was originally intended to extend said pipe line as far as Gilmor street, on Lombard, but it was afterwards determined to stop at Paca street, which point was reached December 11. The work on the line to be done, when the weather will permit, is the connection at all the street crossings, commencing at Paca, thence east over the whole line. The east end of the 40-inch pipe line lies about 150 feet north of Eastern avenue, from which point it is determined to extend a 30-inch pipe 1000 feet to the basin. This 30-inch pipe is yet to be contracted for, and is intended to connect with the 20-inch pipe now

in service on Eastern avenue, to Choptank street. From this point a 20-inch pipe is to be continued to lower Canton and city limits, the contract for which, amounting to 516 tons of pipe and 10 tons of fittings, was finished December 2. The laying of this 20-inch pipe will be commenced when the weather is suitable.

The advance of the 40-inch pipe line was very much delayed by gas pipe; also, city and private sewers—the latter particularly, in the aggregate, cost the department $3500, to avoid and make good these obstructions. There was removed and again relaid $1\frac{645}{5280}$ miles of 2, 3, 4 and 6-inch distributing main, with the restoration of the service pipe; and 1600 feet of 16-inch pipe was taken out, to make room for the advance of the 40-inch, we having heretofore laid a main along Wolfe street, to supply the place of the 16-inch pipe. We also recovered 575 feet of 10-inch pipe, that was abandoned in consequence of the 10-inch line laid on Aisquith street, made obligatory in consequence of the grading of North avenue, and substituting a 20-inch pipe to Harford avenue.

There has been laid 4 miles and 453 feet of 2, 3, 4, 6 and 10-inch pipe, and $2\frac{2375}{5280}$ miles of $1\frac{1}{2}$ inch service pipe. There has been 324,329 square feet of paving done; also the paving for 103 fire plugs, 25 pumps and 39 fountains, at a cost of $7,749.41, which is $2\frac{1}{3}$ cents per square foot.

The workshop, in which all repairs for the department and the machinery, which is required for the new works, is being done, together with all such specialties as are used, (except brass stop-cocks and fer-

rules, for service pipe), has been engaged in constructing during the year 1880, as follows:

Loch Raven, 2 gates, 3x4 feet.
Montebello, 7 " "
Clifton, 15 " "
" 26 " $2\frac{1}{2}$x$3\frac{1}{2}$ feet.
" 36 jacks.

Montebello, 46 cast-iron brackets.

Montebello and Loch Raven, 56 bearings or guides, for gate rods.

Montebello and Loch Raven, 60 pcs. wrought-iron gate rods, partially finished.

Montebello and Loch Raven, 17 gates were erected.

One 30-inch stop valve, partially finished.

Four 28-inch stop valves and one 20-inch stop valve, complete.

Six 10-inch, twenty-four 6-inch, and sixty 4-inch stop valves, complete.

Twelve 4-inch fire plug stop valves and twenty-four 3-inch stop valves, complete.

24 3-inch stop valves, partially finished.

24 2-inch stop valves, complete.

24 fire plugs, standard style, and 2 underground plugs.

9 fountains. 12 street hydrants, partially finished.

36 meter strainers, complete.

4 2-inch air valves, for 40-inch pipe line.

14 gun-metal couplings, for gate rods for Loch Raven and Montebello.

NEW PATTERNS MADE.

Gates and flumes for Clifton.
20-inch pipe truss for Harris' creek.
Reducers, 10x6, 10x4½, 3x2 and 2x1½.
6 inch and 10 inch S. bends.
40-inch collar, for 40-inch pipe lines.
6x2 inch clamp.
Manhole patterns, 40-inch pipe line.
Miscellaneous details for Permanent supply.

SHOP OPERATIONS, 1880,

From January 1, 1880, until January 1, 1881.

	Wages paid.	Value at Current Rates.	Profits.
Temporary supply.....	$9 62	$16 58	$6 96
Lake Roland.....	15 68	21 20	5 52
High Service reservoir	1 00	1 20	20
Druid Lake.....	31 59	55 58	23 99
Pump house.....	48 33	77 30	28 97
Mt. Royal reservoir....	1 87	2 40	53
Permanent supply.....	891 16	1,510 49	619 33
Lake Clifton.....	1,625 92	3,454 39	1,828 47
Permanent supply distributing main.....	2,122 38	3,617 14	1,194 76
Distributing main.....	714 76	1,457 10	742 34
Plumbing department	156 14	260 14	104 00
Fountains	325 47	535 48	210 01
Plugs.....	360 69	832 30	471 61
Meters..... ...	126 11	260 70	134 59
Repairs.....	23 36	40 31	16 95
Tools and fixtures.	164 24	259 89	95 65
	$6,618 32	$12,402 20	$5,783 88

OPERATING EXPENSES.

82 tons of coal, for raising steam and heating building	$417 75
3½ tons of coal, for blacksmith's use	16 75
130 pounds of cotton waste	11 50
75 gallons of lard oil	45 00
Gas for entire building	141 11
Engineer's wages	468 00
Interest on cost of tools, at 6 per cent	312 00
Depreciation of tools, at 2 per cent	104 00
Total amount	$1,516 11
Total net profits	$4,267 77

TEMPORARY PUMPS AT GUNPOWDER FALLS.

The city's supply, which is gathered at Lake Roland, ceased washing over the dam June 19th; from this date until July 4th, the water having fallen below the crest of the dam 27½ inches, it was deemed advisable, by the Board, to operate the pumps. Preparations having been made to do so, they were started on said date. One, and occasionally both sets, were operated until early in September, when it was evident that the failure of the supply, which at this date was over six feet below the crest of the dam at Lake Roland, demanded the whole capacity the pumps could furnish from the Gunpowder. Therefore, from September 5th until November 16th, the pumps greatly exceeded their contract capacity in 24 hours, and Lake Roland, at the latter date, was 15¾ inches below the crest of the dam, when I directed to cease pumping. As above stated, the pumping commenced July 4th and stopped November 16th, having sent from the Gunpowder to Lake Roland 1,053,413,088 gallons of water, which is 118,529,512 gallons more than the maximum capacity of the city's aggregate storage. The inventory, presented to the Board in January, 1880, called for stock of fuel on hand as follows: 456 tons of coal and 16 cords of wood. There was purchased in July, September and October $1,501\frac{1460}{2240}$ tons, and there is now at the works 300 tons; therefore the consumption has been 1,657 tons.

The experience of the past year justifies me in recommending that a temporary structure be erected for the extra hands that are engaged upon such occasions. At present there are no comforts or accommodations for

them worthy of notice. Repairs have been made on the brick-work in the boiler furnaces, also steam pipes; and all the property at these works is in apparent good condition.

The duty performance of the pumps is as follows:

Consumption of Coal in pounds.	Height of water pumped in feet.	Gallons of water pumped.	Millions pounds raised one foot high with 100 lbs. of coal.	Gallons of water pumped with 100 lbs. of coal.	Gallons of water pumped with one pound of coal.	Reduced to common standard of 100 feet high.	Cost per million gallons in dollars and cents.
3,713,140	205	1,053,413,088	48,445,812	28,369.	283.96	58,156	9.72

LAKE ROLAND.

The supply of water wasted over the dam the first four and last month of the year; and for seven months it was produced from storage and the temporary pumps at the Gunpowder Falls. By reference to duty performed at the temporary pumping station, it will be observed that, in four and a half months, Lake Roland received from the Gunpowder 2.63 times its capacity, and thereby prevented a famine of the city's supply. The contractor for dredging has removed, up to April 23d, 20,210⅛ cubic yards, making amount to date 300,024⅜. The contract being for 300,000 cubic yards, instructions were given to stop operations.

In September I started with laborers, horses and carts to remove the material which had been accumulating in the cove at Towsontown Branch, Sand Trap and Jones' Falls. Our operations being governed by the height of the water, we removed 8,716 cubic yards.

Extensive repairs and painting was done on the four boats. The iron bridge below the dam, gate house, jacks, iron railing in gate house, and iron railing near by were also painted. There were 349 panels of new fencing erected along the N. C. R. R., north of the bridge which crosses the lake, and 306 panels west of the Western Maryland R. R. bridge.

CONDUIT

Was flushed very copiously at Harper's Waste Weir, in May and December. Repairs on fencing and culverts were also made.

HAMPDEN RESERVOIR.

The depth of water (20 feet) has been very satisfactorily maintained. The maximum shrinkage has been but twelve inches, and its quality, with the exception of the months of February and March, when it was turbid, has been excellent. The dwelling, railing around gate-house and gate-house, were painted, and the picket fence was whitewashed. This property is in good condition with the exception of the roof on dwelling, which had better be renewed the coming season.

PIPE LINES.

The four 30-inch pipe lines between Hampden Reservoir and Druid Lake have required no repairs since we constructed the drain near Mount Vernon factory in 1879.

DRUID LAKE.

The water has been in excellent condition. You are aware that the volume of water is maintained in this reservoir by the varying city's consumption and the pipe capacity between Hampden and Druid Lake. The past season has been one of extremes, the minimum being one inch below full capacity and the maximum thirty-three and three-quarter inches. There has only been routine labor done here with the exception of a new 16-inch stop erected for the fountain supply. The fountain has operated 437½ hours, commencing in May and stopping in October.

I would here mention, that whilst it would be very satisfactory to be able to procure accurately the city's daily consumption of water, we differ with many other departments in the country who procure said data by the capacity of their pumps. We have a supply served from three elevations, two of which are gravity, the third is pumped. The gravity supply can only be procured by shutting off the supply from the reservoirs and measuring shrinkage, but close observance at Lake Roland, as to opening of gates, has given us almost as reliable data of the consumption as the mode heretofore mentioned. Therefore when the conduit is being regularly supplied with no visible waste along the line, it is approximated that every inch of opening on the gates represents a consumption of 5,000,000 gallons of water per twenty-four hours. In former seasons the heavy draw seldom exceeded 3½ inches of gates, which represents 17,500,000 gallons, but the past summer has exceeded any before in my experience. The gates for

days required 5 inches opening in order to supply the conduit, which represents a consumption of nearly 25,000,000 gallons. I say nearly, because we had a loss during the excessive draw, of six feet head in the lake, which should be credited as above. It will therefore be seen that the new supply does not come any too soon.

HIGH SERVICE PUMPS

Were started in June, 1874, with a Worthington Duplex Pump of three million capacity in 24 hours. These pumps were duplicated and operated in May, 1877. It may be interesting to notice the constant increase in the yearly consumption of water, which is furnished by said pumps. The first six months the consumption was.....138,957,970 gallons.
For the year 1875.....314,470,738 "
" 1880.....686,779,561 "

We are now engaged in putting in new tubes in the first set of boilers. In 1880 the old pumps operated 93 days, 7 hours and 45 minutes, discharging into the reservoir 327,566,796 gallons, and the new pumps 103 days, 12 hours and 45 minutes, discharging 359,212,765 gallons, equal to, in the aggregate, 686,779,561 gallons. There was purchased 1,233 tons of coal, and there remained over from 1879, 240 tons, making in all 1,473 tons There is on hand, as per inventory, 368 tons, showing a consumption for the year of 1,105 tons. There were 9 cords of wood in stock on hand January,

1879, and there were received from the temporary works per N. C. R. R. 32 cords, and there is now on hand 18 cords.

The duty performance of pumps is as follows:

Consumption of Coal in pounds.	Height of water pumped.	Gallons of water pumped.	Millions pounds raised one foot high with 100 pounds of coal.	Gallons of water pumped with 100 pounds of coal.	Gallons of water pumped with one pound of coal.	Reduced to common standard of 100 feet high.	Cost per million gallons in dollars and cents.
2,475,200	144	686,779,561	33,282,394	27,746	277 46	39,954	13 46

HIGH SERVICE RESERVOIR

Has required only the ordinary care of the slopes in cutting grass. The iron railing should be painted in the spring. The minimum depth of water has been 13 feet 4 inches, the maximum 19 feet 11½ inches, but most generally the oscillation has been four feet in each month.

MOUNT ROYAL RESERVOIR

Has been enclosed with a wrought iron railing next the basin. Repairs have been done at screen-well, and the early cold weather prevented painting, which was commenced. Repairs very much needed, and painting was done on the keeper's house and stop-house. The enclosure at the outside slopes is still in the hands of the Park Commissioners.

NEW SUPPLIES FROM DECEMBER 31, 1879, TO DECEMBER 31, 1880.

Aggregate	$14,922 50

EXPENDITURES OF THE WATER ENGINEER'S DEPARTMENT FROM JANUARY 1, 1880, TO JANUARY 1, 1881.

Permanant Supply Distributing Main	$275,821 47
Distributing Main	18,192 20
Lake Roland	12,110 63
Salaries, Engineer's Department	9,412 13
Plumbing Department	10,109 26
Pump House	8,154 12
Repairs	3,462 26
Temporary Supply	13,692 28
Water Meters	7,965 04
Druid Lake	2,982 14
Pumps and Fountains	2,187 15
Fire Plugs	1,862 65
High Service Reservoir	80 89
Hampden Reservoir	487 80
Mount Royal Reservoir	2,885 20
Telegraph Line	281 32
Tools and Fixtures	322 99

BILLS DELIVERED TO REGISTRAR FOR WORK AND MATERIAL.

Plumbing Department	$13,007 59
Distributing Main	647 74

SALES OF MATERIAL AND AMOUNTS TURNED OVER TO REGISTRAR.

For Ice at Lake Roland, 1878-1879	$43 00

For Hay from Lake Roland	68 00
" Conduit	10 00
" Hampden	45 00
" Druid Lake	35 00
" Mount Royal	12 00
Old lumber at Lake Roland	7 78
Damaged corn	5 00
11 oil barrels	5 95
Lead dross	2 00
48,120 lbs. cast iron scrap	403 77
Old burnt cast iron from Pump House	5 00
4,360 lbs. cast iron borings	17 00
474 " Wrought iron scrap	4 26
1,617 " Wrought iron turnings	4 37
380 " scrap brass	53 20
1,419½ " brass turnings	115 29

LEAKS AND REPAIRS.

Number of main leaks	495
" " stops	385
" hydrants and service pipes turned off for leaks	437
" ferrules drawn for leaks	133
" fire plugs repaired	140

ORDERS FROM REGISTRAR.

Supplies stopped for water rent	2,585
" turned on	1,854
Ferrules drawn	214
" returned	147

Persons who were called upon and promised to pay..... 441

PUMPS.

Number repaired..... 44
" removed..... 28

METERS.

There are in service five hundred and twenty-four. Of this number, seventy-two were erected in 1880. The sizes are as follows:

¾	inch	159
1	"	163
1½	"	57
2	"	32
3	"	109
4	"	4
		524

The meters showed for 1880 a registered consumption of water of 629,680,175 gallons, as follows:

Livery stables	5,368,549
Miscellaneous	128,070,506
Pork packers and butchers	21,065,707
Steamboat companies	40,396,565
Sugar refineries	3,906,400
Whiskey distillers and rectifiers	29,511,517
Railroad companies	147,152,940
Beer and ale breweries	69,341,836

Brick yards	1,857,607
Coal oil refineries	8,356,618
Drove yards	6,666,380
Hydraulic elevators	84,759,427
Oyster packers	44,083,246
Hotels	36,966,945
Planing mills	2,175,932

PLUGS ERECTED IN 1880.

Point Lane and Aisquith street.
Martin and Clement.
N. E. corner Low and Front.
Bowley and Concord.
N. E. corner Pratt and Caroline.
N. E. corner Ann and Bank.
*Prestman and Fremont.
N. W. corner Lanvale street and Vincent alley.
S. W. corner Chase street and Hunter alley.
Choptank and Bank.
Gough and Gist.
N. W. corner Fremont and Boyd.
N. E. corner Chester and Aliceanna.
Lancaster, between Luzerne and Patapsco.
S. E. corner Iceland and Sterritt.
S. E. corner German and Paca.
N. W. corner Eastern avenue and Caroline street.
N. W. corner Leakin and Boston.
N. W. corner Lancaster and Durham.
S. E. corner McKim and Neighbor.
N. W. corner Hanover and McComas.
N. E. corner Mulberry street and Norris alley.

*To Replace Old Plug.

PUBLIC FOUNTAINS IN THE CITY.

Fell's Point Market House.
Baltimore and Harrison streets.
Light and Conway streets.
Hollins Market.
Lexington and Jasper streets.
Richmond and Garden streets.
Pratt and Gay streets.
Belair market, Gay street.
Pratt street and Centre market.
Pratt and Light streets.
Light and Lee streets.
Hanover market.
Cross street market.
Baltimore and North streets.
Locust Point.
Light street and Fort avenue.
Madison Square.
Charles street and Boundary avenue.
Pratt and South streets.
Fort avenue and Borrough street.
Fremont street and Burgundy alley.
McMechin and Oliver streets.
Aisquith street and Harford avenue.
Light and Winder streets.
Leadenhall and West streets.
Greenmount avenue and Truxton street.
*Broadway and Bank street.

*Removed.

FOUNTAINS FOR MAN AND BEAST.

Eutaw and German.
Exchange Place.
Broadway and Thames street.
Canton avenue and Chester street.
Howard and Centre streets.
Frement and Lombard streets.
Portland and Green streets.
Eutaw and Cross streets.
President street and Eastern avenue.
Light and Poultney streets.
Charles and Lee streets.
Ensor and East streets.
Broadway and Chase street.
Greenmount avenue and Monument street.
Bond and Jefferson streets.
Pennsylvania avenue and Dolphin street.
Saratoga and Frement streets.
Oregon and Saratoga streets.
Park avenue and Preston street.
Thames and Caroline streets.
Baltimore and Poppleton streets.
Hollins, Frederick avenue and Fulton street.
Light and Randall streets.
Pennsylvania avenue and Fremont street.
Calvert street and Court House.
Eastern avenue and Chester street.
Eastern avenue and West Falls avenue.
40 Philpot street.
Central avenue and Bank street.
Boston and Elliott streets.

Franklin and Paca streets.
Ridgley and Hamburg streets.
Hill and Sharp streets.
Montgomery and Light streets.
Covington and Hughes streets.
Camden and Eutaw streets.
Hanover and Randall streets.
Monument and Wolfe streets.
Fell and Thames streets.
Central avenue and Pratt street.
Conway and Sharp streets.
*Calvert and Centre streets.
*Conway and Little Paca streets.
*Sterritt and Paca streets.
*Scott and Hamburg streets.
*Pratt and Poppleton streets.
*Central avenue and Biddle street.
*Fayette and Durham streets.
*Boundary avenue and Belair avenue.
*Block and Point streets.
*Stockholm street and Peach alley.
*Fayette and Green streets.

DISTRIBUTING MAIN.

Stock of material on hand and value of the same, December 31, 1880.....	$9,394 48

PLUMBING DEPAREMENT.

Stock of material on hand and value of the same, December 31, 1880.....	517 55

*Erected in 1880.

METERS.

Stock of material on hand and value of the same, December 31, 1880	1,397 27

PLUGS.

Stock of material on hand and value of the same, December 31, 1880	819 16

FOUNTAINS.

Stock of material on hand and value of the same, December 31, 1880	333 68

PERMANENT SUPPLY.

Stock of material on hand and value of the same, December 31, 1880	2,642 99

PERMANENT SUPPLY DISTRIBUTING MAIN.

Stock of material on hand and value of the same, December 31, 1880	22,558 70

LAKE CLIFTON.

Stock of material on hand and value of the same, December 31, 1880	2,473 39

I respectfully refer you to Inventory submitted for each works and the City Department.

Respectfully submitted,

JAMES CURRAN, *Water Engineer.*

STATEMENTS.

TABULAR STATEMENT.

Size and Number of Feet of Pipe, Stop Cocks and Branches laid in the City.

	1½ in.	2 in.	3 in.	4 in.	4½ in.	6 in.	8 in.	10 in.	12 in.	16 in.	18 in.	20 in.	30 in.	TOTAL OF PIPE.
No. of feet of pipe laid previous to purchase by Water Co.....	.....	12,203	95,411	31,876	72,462	60,704	10,040	14,330	12,209	26,168	4,627	8,588	14,203	363,821
Laid by Water Commissioners from July 1, 1855, to Dec. '57..	.....	1,909	14,720	28,362	.....	5,005	613	448	.....	.....	.....	9,716	.....	60,773
By Water Board 1858	.....	2,948	24,358	23,742	.....	8,692	144	.....	.....	.....	.....	.....	.....	59,964
" " 1859	.....	638	22,972	40,367	.....	14,503	.....	6,300	108	.....	.....	.....	.....	84,888
" " 1860	.....	.....	20,488	35,106	.....	22,134	.....	7,910	.....	.....	.....	14,889	1,428	101,955
" " 1861	.....	276	8,317	15,432	.....	8,722	.....	5,017	.....	.....	.....	1,080	8,292	47,136
" " 1862	.....	1,140	11,065	6,562	.....	560	.....	.....	.....	490	.....	6,599	51	26,467
" " 1863	.....	2,729	12,223	5,696	.....	3,744	.....	4,560	.....	720	1,170	1,314	.....	32,156
" " 1864	1,748	314	20,899	8,362	.....	6,981	.....	13,476	405	1,962	783	1,395	.....	56,325
" " 1865	7,929	796	16,930	11,729	.....	3,204	.....	.....	.....	.....	.....	.....	.....	40,588
" " 1866	2,903	4,413	15,813	10,864	.....	13,048	.....	.....	.....	.....	.....	.....	.....	47,041
" " 1867	1,145	14,252	17,349	8,808	.....	6,491½	.....	9,372	.....	.....	.....	.....	.....	57,417½
" " 1868	1,642	4,475½	20,466½	14,759½	.....	2,012½	.....	.....	.....	.....	.....	.....	.....	43,356
" " 1869	192	4,765	16,595	9,457½	.....	4,037	.....	.....	.....	.....	.....	.....	.....	35,046½
" " 1870	.....	8,502	11,372	10,886	.....	600	.....	.....	.....	.....	.....	.....	.....	31,360

From Jan. 1st to Oct. 31st, 1871.....	.....	6,295	11,863	13,205	.....	8,452	.....	.....	.....	.....	.....	.....	.....	40,415
From Oct. 31st, 1871, to Oct. 31st, 1872...	78	6,871½	13,660½	12,479	.....	3,425	.....	.....	.....	.....	.....	.....	.....	36,514
From Oct. 31st, 1872, to Oct. 31st, 1873...	.....	4,551	10,677½	8,032½	.....	5,405	.....	2,150	.....	3,400	.....	.....	.....	34,216
From Oct. 31st, 1873, to Oct. 31st, 1874...	36	4,402	8,169	10,525	.....	10,959	5,795	8,537½	.....	.....	.....	.....	.....	48,423½
From Oct. 31st, 1874, to Oct. 31st, 1875...	.....	3,542	7,544½	8,837½	.....	11,750	.....	4,362½	.....	.....	.....	11,160	8,959½	56,156
From Oct. 31st, 1875, to Oct. 31st, 1876...	.....	1,982½	7,053½	15,383	.....	1,050	.....	3,212½	.....	5,175	.....	202½	7,215½	41,274½
From Oct. 31st, 1876, to Oct. 31st, 1877...	.....	1,289	17,246½	15,571½	.....	7,462½	.....	75	137½	.....	.....	.....	.....	41,782
By Water Board 1878	175	1,603	7,567	11,579½	.....	3,000	.....	4,800	.....	837½	.....	425	3,312½	33,299½
" " 1879	.....	1,603	4,490	10,876	.....	3,160	.....	2,038½	.....	.....	.....	2,975	.....	25,142½
" " 1880	.....	1,882	5,057½	7,777	.....	5,459	.....	1,398	.....	.....	.....	.....	.....	21,574½
	15,848	94,981½	422,387½	376,275	72,462	220,560½	16,592	87,987	12,859½	38,752½	6,580	58,343½	43,461½	1,467,091¼

TABULAR STATEMENT—Continued.

	1½ inch.	2 inch.	3 inch.	4 inch.	4½ inch.	6 inch.	8 inch.	10 inch.	12 inch.	16 inch.	18 inch.	20 inch.	30 inch.	Total Pipe	Stops.
Stop Cocks by Water Company	....	12	61	94	....	55	9	8	2	9	4	2	2	....	270
" " Commissioners	....	2	8	8	....	2	....	....	....	....	....	2	....	....	29
By Water Board 1858	....	17	23	14	....	3	1	....	1	16	....	1	....	....	76
" " 1859	....	15	30	54	....	16	....	7	....	....	....	....	....	....	122
" " 1860	....	....	18	55	....	36	....	9	....	....	....	4	1	....	123
" " 1861	....	7	7	24	....	8	....	3	....	....	....	....	5	....	54
" " 1862	....	21	19	31	....	19	....	1	....	1	....	4	....	....	96
" " 1863	....	8	20	28	....	2	....	2	....	....	....	1	....	....	61
" " 1864	....	12	18	15	....	4	....	5	....	....	....	1	....	....	55
" " 1865	....	24	13	6	....	2	....	....	....	....	....	....	....	....	45
" " 1866	....	22	24	20	....	4	....	....	....	....	....	....	....	....	70
" " 1867	....	46	22	5	....	5	....	....	....	....	....	....	....	....	81
" " 1868	....	7	24	19	....	3	....	....	....	....	....	....	....	....	53
" " 1869	....	....	7	18	....	3	....	....	....	....	....	....	....	....	28
" " 1870	....	....	4	7	....	....	....	....	....	....	....	....	....	....	11
January 1st to October 31st, 1872	....	5	11	25	....	5	....	....	....	....	....	....	....	....	46
October 31st, 1871, to October 31st, 1872	....	10	20	23	....	3	....	....	....	....	....	....	....	....	56
" 1872, " 1873	....	7	14	25	....	12	....	2	....	2	....	....	....	....	62
" 1873, " 1874	....	4	14	52	....	9	6	6	....	....	....	....	....	....	91
" 1874, " 1875	....	3	5	31	....	10	....	6	....	1	....	6	2	....	64
" 1875, " 1876	....	1	25	66	....	52	2	....	....	1	....	1	2	....	150
" 1876, " 1877	....	5	62	50	....	13	....	2	....	....	....	....	....	....	139
By Water Board 1878	....	7	29	23	....	2	....	6	....	4	....	2	1	....	73
" " 1879	....	4	15	37	....	6	....	2	....	....	....	....	....	....	64
" " 1880	....	3	9	24	....	14	....	2	....	....	....	....	2	....	54
		249	509	753		288	18	64	9	34	4	30	15		1,973

TABULAR STATEMENT—Concluded.

	1½ inch.	2 inch.	3 inch.	4 inch.	4½ inch.	6 inch.	8 inch.	10 inch.	12 inch.	16 inch.	18 inch.	20 inch.	30 inch.	Total Pipe.	Stops.	Branc'es
Branches by Water Board 1858	....	3	78	98	....	33	2	....	...	1	....	....	....	....	....	215
" " " 1859	....	....	53	134	....	75	....	32	2	....	....	....	....	....	....	296
" " " 1860	....	....	68	108	....	149	....	29	....	....	....	52	2	....	....	408
" " " 1861	....	....	26	50	....	33	....	19	....	....	....	6	34	....	....	168
" " " 1862	....	5	25	30	....	4	....	1	....	....	....	16	....	....	....	81
" " " 1863	....	3	29	19	....	9	....	7	....	2	1	5	....	....	....	75
" " " 1864	3	3	40	21	....	9	1	47	....	5	4	4	....	....	....	137
" " " 1865	20	....	47	20	....	15	....	....	....	....	....	....	....	....	....	102
" " " 1866	3	...	30	24	....	16	....	....	....	....	....	....	....	....	....	73
" " " 1867	1	29	46	26	....	7	....	21	....	....	....	....	....	....	....	130
" " " 1868	1	6	38	42	....	12	....	....	....	....	....	....	....	....	....	100
" " " 1869	....	5	54	32	....	6	....	2	....	....	....	....	....	....	....	99
" " " 1870	....	9	27	39	....	1	...	....	....	....	....	....	....	....	....	76
January 1st to October 31st, 1871	....	6	22	29	....	32	....	....	....	....	....	....	....	....	....	89
Oct. 31st, 1871, to Oct. 31st, 1872	....	3	35	39	....	10	...	....	....	....	....	....	....	....	....	87
" 1872, " 1873	....	3	26	23	..	14	....	7	...	3	...	....	....	....	....	78
" 1873, " 1874	....	4	17	53	....	16	22	50	....	1	....	....	....	....	....	143
" 1874, " 1875	...	5	14	26	....	5	....	13	....	1	....	29	8	....	....	101
" 1875, " 1876	....	4	21	90	....	12	....	14	....	21	....	....	9	....	....	171
" 1876, " 1877	....	2	45	45	....	23	1	3	....	....	....	....	....	....	....	119
By Water Board 1878	....	4	20	36	....	8	....	....	....	9	....	3	4	....	...	84
" " 1879	...	2	14	41	....	6	....	5	....	....	....	....	....	....	....	68
" " 1880	...	....	9	35	....	17	....	11	....	....	....	5	....	....	....	77
	28	96	784	1,061		512	26	241	2	45	5	120	57			2,977

Whole length of Pipe Line in the City, December 31st, 1879..... 273 *Miles*, 4,077 *Feet*.
Pipe Line in the City, from January 1st to December 31st, 1880..... 4 " 454½ "
Whole length of Pipe Line in the City, December 31st, 1880..... 277 " 4,531½ "
Net Cost of Pipe to date..... $1,845,091 83

Location, Size, Number of Feet, and Cost of Distributing Main, Laid from January 1st, 1880, to December, 31st. 1880.

Streets in which Pipes are Laid.	Between what Streets.	Size in Inches.	Length in Feet.	Cost.
Hanover	Wells and Donaldson	4	700	$300 91
10 foot alley, rear Hull	South of Clement	2	98	32 59
Constitution	Madison and Monument	3	96	33 83
Fort avenue	Andre and Fort McHenry	4 6	500 2,481	1,662 85
10 foot alley, rear Shirk	Oak and Hudson alley	3	275	142 92
10 foot alley, rear Oak	Brown and Shirk	4	100	
10 foot alley, rear Washington	John and Hoffman	4	425	176 34
Boundary avenue	Aisquith and Harford avenue	3	125	48 63
North	Eager and Chase	4	36	16 97
10 foot alley, rear Townsend	Stockton alley and Carey	3	37½	42 98
Carey	Townsend and Mosher	4	50	
German	Howard and Sharp	4 6	12½ 500	303 79
Edmondson avenue	Oregon and Schroeder	4	62½	30 27
10 foot alley, rear Stricker	Lexington and Saratoga	2	66	24 03
10 foot alley, rear Oak	Mankin and Shirk	3	205	70 62
Tome	Clinton and First avenue	3	145	65 60
Canton	Hudson and Dillon	4	162½	83 83

Rear Port alley	Aliceanna and Canton avenue	2	102	35 37
Jenkins alley	Wilson and Laurens	6	187½	96 46
Eager	Cathedral and Decker	2	60	20 98
Rear Fort avenue	Hull and Cooksie	2	132	45 04
Chase	Greenmount avenue and McKim	4	146	112 40
Chapel	Fayette and Hampstead	2	102	35 91
Hoffman	Aisquith and Harford avenue	3	87½	41 33
Chapel	Bank and Gough	3	53	21 27
Lorman alley	Scott and Parkin	3	227	97 11
Chapel	Baltimore and Lombard	2	143	54 17
Chapel	Chew and Eager	4	170	110 84
Boston	Patuxent and Canton	4	731½	436 94
Montrose	Stricker and Gilmor	3	100	37 94
Huntingdon avenue	Calvert and St. Paul	4	146	101 86
Vincent alley	Lanvale and Townsend	4	304	192 28
10 foot alley, rear Townsend	Vincent alley and Mount	3	175	71 04
Hunter alley	Chase and Eager	4 6	361½ 487½	435 00
Chase	Calvert and Hunter alley	3	100	61 58
Sharp	German and Lombard	10	348	682 59
Sharp	German and Lombard	4 6	12 325	417 68
Huntingdon avenue	North and Calvert	4	48	36 18
Lancaster	Ann and Register	3	30	15 50
Hager's Court	Rear Madison, near Ensor	2	30	12 58
Port alley	Aliceanna and Lancaster	3	40	20 12
Baker alley	Baker and Cumberland	4	24	19 00

Location, Size, Number of Feet, and Cost of Distributing Main, Laid from January 1st, 1880, to December 31st, 1880.

Streets in which Pipes are Laid.	Between what Streets.	Size in Inches.	Length in Feet.	Cost.
Valley	John and Biddle	4	292	$171 85
Fawn	Central avenue and Exeter	3	112½	58 33
10 foot alley, rear Broadway	Walker and McElderry	2	228	76 61
10 foot alley, rear Central avenue	Hoffman and Point Lane	3	25	16 25
10 foot alley, rear Mosher	Calhoun and Woodyear	3	75	43 75
Bouldin alley	McMechin and Wilson	3	43	23 26
Rear Edmondson avenue	Mount and Vincent alley	3	100	57 60
Hudson alley	Shirk and Brown	4	243	181 93
Shirk	Hudson alley and Oak			
10 foot alley, rear Constitution	Eager and Chase	2	270	109 65
10 foot alley, rear Caroline	Bank and Eastern avenue, and			
Rear Eastern avenue	Spring and Caroline	3	105½	61 85
Rear Hoffman	Chapel and Washington	3	63	40 68
Cuba	Richardson and Andre	3	200	121 50
Rear Cooksie	Clement and Fort avenue	2	36	14 63
Mount	Ramsay and McHenry	6	112½	90 33
Bradford alley	Eastern and Canton avenues	3	80	45 98
Spruce alley	Washington and Castle	3	7½	3 88
Sharp	Lombard and Pratt	10	300	492 30

Register	Baltimore and Lombard	2	38	15	02
Walls	Ostend and West	3	48	27	14
Lancaster	Luzerne and Patapsco	6	468	358	73
Baker	Mount and Vincent alley	4	95	61	75
10 foot alleys, in rear of Druid Hill avenue	The east and west sides of Presstman and Blome	4	693½	424	59
Jordan alley	Laurens and Wilson	6	161½	120	25
10 foot alley, rear McDonough	Barnes and Chew	3	48	31	72
Woodward	Scott and Sterrett	3	287½	163	81
Sterrett	Columbia and Iceland	4	248½	208	54
German	Eutaw and Paca	6	400	355	88
Baltimore	Eutaw and Howard	6	89½	155	80
10 foot alley, rear Chase	Washington and Castle	3	275	128	34
Canton avenue	Port and Cannon	4	182½	118	16
Calvert	Townsend and Lanvale	4	17½	14	25
10 foot alley, rear Franklin	Fulton and Mount	3	131	69	16
Hargrove alley	Biddle and John	3	100	57	56
Rear Eastern avenue	Burke and Port alley	3	162½	87	91
Boston	Lakin and Concord	3 4	12½ 170	137	46
John	St. Paul and Hargrove alley	6	87	72	99
Mulberry	Fremont and Ogston	3	37½	29	42
Hargrove alley	Biddle and John	3	212½	109	84
Dryden alley	Laurens and Presstman	4	94	66	69
Lancaster	Ann and Durham	4	182½	139	49
Rear Harlem avenue	Stricker and Norris alley	2 3	6 187½	89	91

Location, Size, Number of Feet, and Cost of Distributing Main, Laid from January 1st, 1880, to December 31st, 1880.

Streets in which Pipes are Laid.	Between what Streets.	Size in Inches.	Length in Feet.	Cost.
Fayette	Howard and Park avenue	2	78	$33 17
Goodman alley	Randall and Fort avenue	3	137½	87 35
Rear Hanover	Randall and Heath	3	150	93 36
Clay	Howard and Eutaw	6	141	252 24
Stoddard alley	Wilson and Laurens	4	147½	96 85
Bowly's wharf	South of Wood street	2	324	122 98
McKim	Willow and Neighbor	3	400	228 33
Neighbor	McKim and Valley	4	121	113 59
Hanover	McComas and Jephson	4	862	528 31
Vincent alley	Franklin and Edmondson avenue	4	48	37 87
10 foot alley, rear Mount	Lanvale and Townsend	3	108	53 76
10 foot alley, rear Lanvale	Foster alley and John	2	168	53 00
Norris alley	Franklin and Saratoga	4	717 1/10	415 52
Alley rear south side of Mulberry	Stricker and Calhoun	3	124½	72 88
Alley rear north side of Mulberry	Stricker and Calhoun	3	123	84 29

New Supplies for the year ending December 31st, 1880.

505	Dwellings	at	$5 00.....	$2,525 00	
379	"	"	7 50.....	2,842 50	
257	"	"	9 00.....	2,313 00	
112	"	"	12 00.....	1,344 00	
31	"	"	14 00.....	434 00	
17	Warehouses	"	6 00.....	102 00	
8	"	"	8 00.....	64 00	
37	"	"	10 00.....	370 00	
1346					$9,994 50
285	Baths	at	$2 00.....	$570 00	
234	Water Closets	"	2 00.....	468 00	
149	Hose	"	3 00.....	447 00	
266	Horses	"	1 50.....	399 00	
102	Carriages	"	1 50.....	153 00	
8	Urinals	"	1 50.....	12 00	
24	Cows	"	1 00.....	24 00	
2414					$2,073 00
18	Bars	"	3 00.....	54 00	
9	"	"	5 00.....	45 00	
4	Drugs	"	3 00.....	12 00	
3	Extra Families	"	2 00.....	6 00	
10	Churches	"	10 00.....	100 00	
8	Barbers	"	3 00.....	24 00	
3	Bakeries	"	3 00.....	9 00	
2	Schools	"	12 00.....	24 00	
	Amounts carried forward. ..			$274 00	$12,067 50

	Amounts brought forward....			$274 00	$12,067 50
6	Blacksmiths	at	$2 50.....	15 00	
4	Fountains	"	5 00.....	20 00	
1	Fountain	"	.....	10 00	
1	Photographer	"	.....	10 00	
2	Butcheries	"	5 00.....	10 00	
6	"	"	10 00.....	60 00	
1	Stone Manufactory	"	.....	25 00	
1	Laundery	"	.....	10 00	
1	Erich Pump	"	.....	6 00	
1	Can Factory	"	.....	10 00	
1	Public Bath	"	.....	10 00	
1	Florist	"	.....	5 00	
1	Green-house	"	.....	15 00	
1	"	"	.....	20 00	
1	Factory	"	.....	7 50	
1	"	"	.....	10 00	
1	"	"	.....	15 00	
1	"	"	.....	20 00	
1	Pickling-house	"	.....	10 00	
3	Coopers	"	5 00.....	15 00	
1	Special	"	.....	14 00	
1	"	"	.....	30 00	
3	"	"	20 00.....	60 00	
3	"	"	32 00.....	96 00	
1	Oyster Packer	"	.....	15 00	
1	"	"	.....	20 00	
1	"	"	.....	25 00	
1	1½ h. p. Boiler	"	.....	7 50	
	Amounts carried forward			$345 00	$12,067 50

		Amounts brought forward....			$845 00	$12,067 50
2	3	h. p. Boiler at	15 00.....		30 00	
4	4	" "	20 00.....		80 00	
5	6	" "	30 00.....		150 00	
1	7	" "	.....		35 00	
3	8	" "	40 00.....		120 00	
2	10	" "	50 00.....		100 00	
1	13	" "	.....		65 00	
1	20	" "	.....		100 00	
3	22	" "	110 00.....		330 00	
1	25	" "	.....		125 00	
5	35	" "	175 00.....		875 00	
						$2,855 00
2547						
		Producing a yearly revenue of..				$14,922 50

Respectfully submitted,

JAMES CURRAN.

REPORT

OF THE

CIVIL ENGINEER,

For 1880.

REPORT.

OFFICE OF THE CIVIL ENGINEER—CITY HALL.

Baltimore, January 1st, 1881.

To the Honorable the President and
Members of the Water Board:

GENTLEMEN:

The report of the work under construction in the Civil Engineer's Department, during the year 1880, is herewith submitted for your consideration.

GUNPOWDER PERMANENT SUPPLY.

Under this head are embraced the several pieces of work that constitute the Permanent Water Supply from the Gunpowder Falls, viz: Loch Raven, the storage lake in the bed of the Gunpowder Falls; the dam across the Gunpowder Falls; the tunnel or conduit line from the dam to the receiving reservoir; Lake Montebello, the receiving reservoir; Lake Clifton, a storage reservoir, and the 40-inch pipe mains from Lake Clifton to the city limits.

A statement of the progress made during the past year upon these several pieces of work is herewith presented.

LOCH RAVEN.

A storage lake in the bed of the Gunpowder Falls is formed by the erection of a stone dam of heavy rubble and cut masonry across the Falls.

At the Dam the depth of water will be 20 feet, and at Meredith's Ford bridge, five miles up the stream, where the back water ceases, it will be 4 feet deep.

The margins of the Gunpowder, within the area flooded, have been excavated to the present level of the stream, and the material removed outside of the flooded portion, thus giving all possible depth of water to the proposed lake.

At the upper end of the lake, where the flooded area was shallow, the margins of the stream were excavated but a short distance, and the material used in forming heavy embankments, or levees, on each side, to prevent the overflow of the waters of the Gunpowder in times of freshets.

The numerous estuaries, formed by the streams that make into the Gunpowder from the Dam to the head of the back water, have all been excavated, as the sides of the main stream, and will contribute to the storage capacity of the lake.

On each side of this lake has been constructed a carriage drive from the Dam to Meredith's Ford bridge. It is located with a level grade following the meanderings of the stream; it is ten feet vertically above the crest line of the Dam and from thirty to fifty feet in width.

Over the streams running into the lake and on the line of the carriage drive, have been constructed nine stone bridges, three being on the east and six on the west side of the lake. Seven of these bridges are built of white marble found in the vicinity, and two of white and blue stone combined. Their spans are twenty and thirty feet, according to width of the stream crossed; each bridge is entirely different in design from the other.

The construction of these bridges was made necessary for the passage of the carriage drive on each side; their openings are sufficient for all freshets that may occur; there is six feet head room from the surface of the water to the intrados of the arches, in all cases; boats can readily pass from the main portion of the lake under the arches and out into the estuaries on the sides.

Loch Raven is completed, and the final estimate has been paid the contractors. All that now remains to be done is draining and fixing up the carriage drives on each side.

The total cost of the construction of Loch Raven has been $467,139.96.

THE DAM.

Since my last annual report, a third coffer-dam has been constructed, and the flow of the Gunpowder Falls is now passing through the drain-gates and archway under the gate-house.

This third and last coffer-dam enables the contractors to build the centre portion of the dam; when this is

done, Loch Raven will then be filled with water for consumption.

The principal part of the work done the past year consisted in building the gate chambers, waste weir, and the western end of the dam. Some little work was done in the centre portion of the dam before cold weather put a stop to operations.

The gate chambers, waste weir, and the western end of the dam, except the laying of a few perches of stone, are completed.

The seventeen gates that regulate the flow of water in the gate chambers at the dam are all in position; the connections for working them at the top will be put up as soon as the weather will permit.

There is a large amount of dimension stone delivered, ready to be put in the work as soon as the season opens; this, together with the small amount of stone yet to be laid, should enable the contractors to finish the dam early in the coming summer.

The cost of graduation and masonry upon the Dam section to January 1st, 1881, has been $280,671.05.

THE TUNNEL OR CONDUIT LINE

Was commenced in December, 1875, and completed in November, 1880.

Its length, from the gate-house at the dam to the gate-house at Lake Montebello, is seven miles.

In the construction of this conduit no open cuts were made, all the work was done by drifting.

It is an air line from the dam to Lake Montebello, except just before reaching Lake Montebello, a curve with a radious of 717 feet was used to give the proper direction on entering the gate-house.

The course of the tunnel from Lake Montebello to the dam, is north twenty-six degrees east. It is a full circle, twelve feet internal diameter.

The gradient, or fall, is one foot per mile; it is therefore seven feet lower at Lake Montebello than at the dam.

The waste weir in the gate-house at the dam is on a level with the intrados of the arch of the conduit at that point; and the waste weir in the gate-house at Lake Montebello being on a level with that at the dam, there will be consequently seven feet of water over the conduit at the lower end, when the upper portion is full.

In the construction of the tunnel, fifteen shafts were sunk from the surface to the grade line. From the bottom of these shafts working parties advanced north and south to meet each other. With the opening at each end of the tunnel and the two at each shaft, there were thirty-two points from which the tunnel was worked.

The shafts were placed immediately over the centre line of the tunnel; their dimensions were 17, 20 and 22 feet long and 8 feet wide, the long way of the parallelogram being parallel to the axis of the tunnel.

Up these shafts the material excavated in driving the tunnel was hoisted.

The shafts varied from 65 to 300 feet in depth. They

were located about 2,000 feet apart, except at each end of the tunnel, where the shafts were shallower, the distance between them was greater. The longest drive between shafts was 3,100 feet at the south, or Montebello end.

The tunnel was divided into seven sections of a little less than a mile each, with two short stretches at each end, which were embraced in the construction of the dam and Lake Montebello.

The seven sections were built by three different firms of contractors.

In the driving of the tunnel, two kinds of rock were met with—blue gneiss and lime stone.

Six miles of the tunnel was through blue gneiss, most of it very hard, and not disintegrating, or softening, from the action of the air. This six miles lay north from Lake Montebello in an unbroken chain.

The first mile south from the dam was through lime stone, excepting four or five hundred feet, all of it required arching. It was in this mile that large quantities of water were encountered, giving a great deal of trouble and adding to the cost. Here it was, where so many fissures were met with, as also pockets of soft material in a semi-fluid state.

All the work in sinking the shafts and driving the drifts were done by hand labor. In hard rock six feet of the upper portion of the circle was driven first, and then the bottom was taken up afterwards. In soft material the upper semi-circle was taken out large enough to admit timbering, and the full circle arch was built as the bottom excavation progressed. In all

cases the timbering remained in the tunnel; the space between it and the roof of the tunnel and the brick arch was packed with earth and stone.

All the contractors used giant powder, or dynamite, exploded by a cap and the ordinary blasting fuse, in removing material in the shafts and drifts.

The sinking of the shafts and the driving of the drifts of the tunnel were done by contract at so much per cubic yard.

All brick work in the tunnel was done by days labor, the department furnishing the material and employing the labor in the execution of the same. This plan was adopted to insure good workmanship where it was so important to have a perfect job.

The brick work is laid in hydraulic cement, in concentric rings of two in the bottom and three in the arch, increased to one, and two rings more, where the ground was bad.

Wherever the bottom of the tunnel was good, straight walls of brick work twelve feet apart were built on the solid rock on each side of the tunnel, upon which was sprung the arch to hold the insecure roof. In all cases, wherever the bottom of the tunnel was in the least soft, the full circle with brick invert was built.

Openings have been left in the brick work for the free passage of water from all springs.

The amount of water now coming into the tunnel from these springs is very large, and will add greatly to the supply from the Gunpowder Falls.

The fifteen shafts on the tunnel line have all been

arched over and filled up to the surface. The number of rings of bricks in the arch over each shaft varied from eight to twelve, according to the depth of the shaft.

The lineal feet of shaft sunk for the prosecution of the tunnel was 2,379.

Of the seven miles of tunnel 11,691 feet required to be arched, the balance remains as it was taken out, in hard rock, by the contractors.

It is a source of great satisfaction to state that the lines and levels met, as the several headings came together, most satisfactorily, and although they were taken into the tunnel from seventeen different points, yet, in all cases, they came out correct.

The tunnel is unbroken in its alignment and grade from the dam to Lake Montebello, which reflects great credit upon the several resident engineers in charge.

The tunnel has cost for graduation $1,382,598.92, and for arching, cleaning up the tunnel and filling up the shafts $397,011.32.

The total cost, therefore, of the tunnel, or conduit line, from the dam to Lake Montebello, has been $1,779,610.24.

LAKE MONTEBELLO

Is the main receiving reservoir of the permanent supply from the Gunpowder Falls.

It is located in a ravine at the southern end of the tunnel from the dam, and is formed by building two embankments at the eastern and western ends of the ravine.

The northern and southern sides are in excavation. It is an irregular figure conforming to the general shape of the ravine in which it is located.

From the sides and high grounds of the western end, material was excavated to build the embankments at either end and to fill up the ravine to a uniform depth. The contract for building Lake Montebello embraced the construction of a tunnel for the conveyance of the supply of water from Lake Montebello to the city, the construction of a small portion of the tunnel from the dam adjacent to Lake Montebello, and also the construction of a drain tunnel on the north side of the lake, through which the natural drainage, that formerly flowed through the ravine in which the lake was located, had to be diverted.

All these several pieces of work have been completed, and Lake Montebello is now ready to receive its supply of water from the Gunpowder Falls.

What remains to be done at Lake Montebello is more of an ornamental character than otherwise, such as graveling the carriage drive, building an iron railing along the outer edge of the lake, and some little regrading of the inner and outer slopes wherever necessary.

The surface of the water in Lake Montebello, when full, is 163 feet A. M. T., and the depth of water will be 30 feet.

When full, its capacity will be about 500 millions of gallons.

The carriage drive around the lake will be one and a half miles long, varying in width from 60 to 80 feet.

The flow of water into and out of the lake is controlled by a compound gate-house, in which are twenty-nine gates.

The supply of water into the lake is discharged at the lower end, and drawn out for city use from the upper end, thereby creating a circulation through the body of the lake.

The lake is emptied of its waters through a drain in the gate-house into a drain tunnel discharging into Herring Run.

The surface drainage on the south side of the lake is conveyed in an eighteen-inch cement pipe, laid on the outside of the carriage drive, and emptying into Herring Run.

The surface drainage on the north side of the lake is carried off by means of cement pipes, leading into twelve-inch iron pipes that were laid in the three shafts of the drain tunnel before the shafts were arched over, and thence into the tunnel and out into Herring Run.

The supply of water for the city, after it leaves the gate-house at Lake Montebello, is conveyed in a conduit, built partly in tunnel and partly in open cut, a distance of 5,391 feet to the gate-house at Lake Clifton.

LAKE CLIFTON.

As it is desirable to introduce the Gunpowder at as early a date as possible, operations at Lake Clifton the

past year have been confined to the construction of the conduit, in open cut excavation, from the southern end of the Clifton tunnel to the gate chambers at Lake Clifton; the building of the gate chambers, and the laying of the 40-inch mains.

The conduit from the Clifton tunnel to the gate chambers has been completed, and the open cut in which it was laid has been filled up to the grade line of the street over the conduit.

The excavation for the gate chambers has been finished, and the masonry commenced. The foundations are all in; the first tier of iron flumes are laid; the gates that are to be attached to the flumes are on the ground, and operations will be resumed as soon as the weather permits.

PIPE LINES.

Washington street, extended, through the property of the Johns Hopkins' University Trustees, has been graded for the laying of the 40-inch mains. Two stone culverts under Washington street, on this property, have been built; and Washington street, between the south boundary of the trustees' property and the north boundary of the city, has also been graded.

A thirty-inch iron drain pipe, 1,050 feet long, has been laid from the gate chambers at Lake Clifton to one of the stone culverts under Washington street.

There was laid 276 forty-inch cast iron mains on Washington street during the past year. Whenever the

weather will permit during the winter, additional mains will be laid as fast as possible.

In conclusion, I again refer with pleasure to the efficiency of the corps of engineers and inspectors on the whole work, and to the willingness shown by the contractors to comply with the specifications in their several articles of agreement.

Respectfully submitted,

ROBERT K. MARTIN,

Civil Engineer.

ANNUAL REPORT

OF THE

HEALTH DEPARTMENT,

OF THE

CITY OF BALTIMORE

TO THE

MAYOR AND CITY COUNCIL OF BALTIMORE,

FOR THE

FISCAL YEAR ENDING DECEMBER 31st, 1880.

OFFICERS AND EMPLOYEES

OF THE

HEALTH DEPARTMENT

OF THE CITY AND PORT OF BALTIMORE,

FOR THE YEAR 1880.

JAMES A. STEUART, M. D.,
Commissioner of Health and Registrar.

JAMES F. McSHANE, M. D.,
Assistant Commissioner of Health.

E. LLOYD HOWARD, M. D.,
Resident Physician at Marine Hospital.

A. ROBERT CARTER,
Secretary.

WILLIAM. H. BOSLEY, *Nuisance Clerk.*
V. BURGESS HINES, *Permit Clerk.*
F. W. RABORG, *Clerk to Registrar.*

Messenger.
MONTGOMERY LAWRENCE.

Sanitary Inspectors.

GEORGE E. TAYLOR,
J. P. SMITH,
BEVERLY DIGGS,
GEORGE E. BROWN,
JOSEPH V. FITZPATRICK,
J. E. DURDING.

Superintendents of Streets.

B. V. KELLY, *First Dist.*
J. P. SCOTT, *Second Dist.*
MICHAEL FADGEN, *Third Dist.*
LOUIS KROEGER, *Fourth Dist.*
JOHN MEAGHER, *Fifth Dist.*

Inspectors of Sewers.

HENRY PAFF, *Eastern Dist.*
JOHN W. LEE, *Western Dist.*

Superintendents of City Public Cemeteries.

PATRICK MULLEN, *Eastern.*
F. A. KERCHNER, *Western.*

VACCINE PHYSICIANS.

First and Second Wards,
JAMES M. SULLIVAN, M. D., 16 Thames Street.

Third and Fourth Wards,
S. H. MARTIN, M. D., 233 E. Pratt Street.

Fifth and Sixth Wards,
E. C. JORDAN, M. D., 80 Aisquith Street.

Seventh and Eighth Wards,
E. HALL RUTLEDGE, M. D., 151 Aisquith Street.

Ninth and Tenth Wards,
J. V. COONAN, M. D., 42 N. Calvert Street.

Eleventh and Twelfth Wards,
I. R. PAGE, M. D., 220 Linden Avenue.

Thirteenth and Fourteenth Wards,
HENRY DARLING, M. D., 252 W. Lexington Street.

Fifteenth and Sixteenth Wards,
J. D. BLAKE, M. D., 168 S. Paca Street.

Seventeenth and Eighteenth Wards,
R. B. FISHBURNE, M. D., 564 Light Street.

Nineteenth and Twentieth Wards,
A. H. SAXTON, M. D., 543 W. Lexington Street.

REPORT

OF THE

COMMISSIONER.

REPORT.

HEALTH DEPARTMENT—CITY HALL,

BALTIMORE, MD., January 3, 1880.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

I have again the honor to transmit herewith the annual report of the Health Department for the year ending December 31, 1880.

Our fair city has been blessed with health and prosperity, and it is most gratifying to be able to repeat the congratulations of last year upon the same happy results. Although the total number of deaths is greater than in 1879, and the annual death rate slightly higher, no epidemic disease has occurred during 1880.

The causes of death may be roughly placed under four heads:

1st. "Infantile," (occuring under five years of age)	3602	
of which 503 were from Cholera Infantum.		
2d. Consumption	1221	
3d. Old age	711	
		5534
4th. All other causes between the ages of 5 and 70 years		2509
Grand total		8043

The annual death rate for 1880 per 1000 is 20.41; whilst that for 1879 was 19.30, or 1.11 lower. The total deaths for 1879 were 7618, or 425 less than in 1880.

It is a well-settled principle among sanitarians, that the great bulk of diseases which serve to make up the weekly or yearly death roll everywhere, and especially in large cities, are, to a certain extent, what are recognized and classed as "preventable diseases;" and there can be no question but that just in proportion as health laws are studied and comprehended, and public sanitation enforced, in the same proportion is the annual death rate found to be diminished.

To the extent of the means afforded this Department in past years has this been demonstrated; and although the appropriation made by the City Government for the year 1880 was less than the amount asked for and required by the heavy demands of our daily increasing work, yet the Board of Health has striven to confine its expenditures within the limits thus provided.

The expenses of a rapidly growing city are necessarily increased, partly by such growth and partly by

the increase of our civilization. In proportion as the public are enlightened as to the vital importance of public sanitation, in the same ratio is the value of the work of a Health Department appreciated and demanded.

This cannot be done without adequate means, and I take this opportunity of respectfully urging upon your Honorable Body the importance of liberal appropriations for the use of the Health Department during the ensuing year.

There is absolutely no reason why Baltimore should not be one of the most healthy, as she is one of the most prosperous cities in this country. Her death rate continues to compare favorably with the most favored, and there are but a few important sanitary measures remaining unaccomplished, to place Baltimore in the front rank.

The chief of these is the adoption of a general system for the whole city of house sewerage, distinct from the storm water sewers now in use or in course of construction. By this means, and by this means only, can the dangerous present system of privy pits be done away with.

I pointed out in my last report the magnitude of this evil, and urged upon your Honorable Body the danger which increases by delay.

The proofs of this are amply set forth in the daily reports of the Sanitary Inspectors, who, under my instructions, have visited the premises in every instance, where a fatal case of Scarlet Fever, Diphtheria or Typhoid Fever have occurred, and the almost inva-

riable report is that the privy is full, or in a state of nuisance, or that the water-closet or house fixtures or house drains are, to a greater or less degree, responsible for the disease. I am fully aware of the magnitude of the work I propose, as well as of the difficulties which stand in the way of its accomplishment, and I, therefore, respectfully suggest, as a preliminary step, that your Honorable Body will at once provide for the appointment of a Commission, charged with the duty of examining into the whole subject, by the employment of a competent engineer, who shall make a complete topographical survey of the city, prepare maps, estimates of cost of the work, &c., &c., and to report to the Mayor and City Council in time for its full discussion and consideration by your Honorable Body, prior to the meeting of the next Legislature, so that should the report of the proposed Commission meet with your favorable consideration, an enabling act may be procured from the Legislature of the State, authorizing the issuance of City Bonds to carry out the work.

During the ensuing year I anticipate, with pleasure, the abolition of *all* the city pumps, and the substitution of public fountains, fed by the anticipated superabundant supply from the Gunpowder.

This is not only a great sanitary measure, but one capable of influencing morality as well, on the principal that "cleanliness is next to Godliness."

To follow this in the march of improvement, must come, sooner or later, the banishment of all slaughter-houses, fat-rendering and soap-boiling factories, to a suitable distance from our present city limits. There

can be no doubt as to the propriety of such a measure; the only question of dispute involved being the possible antagonism to the interests of a large, influential, wealthy and most worthy class of citizens. This must be met and adjusted, upon equitable and reasonable conditions.

Public health demands that the authorities of an enlightened and progressive city, such as Baltimore is, should not shrink from the task of ridding her confines of everything—no matter what—which may, in any manner, militate against her perfect sanitary condition, and, at the same time, be ready and willing to justly and fairly compensate any whose interests may suffer, for the good of the whole. The establishment by the Baltimore and Ohio Railroad of the Mt. Clare Stock Yards, opens the way for the accomplishment of this desirable end; and I trust the day is not far distant, when, through the enlightened generosity of our City Council, or through the progressive public spirit of those whose interests are specially involved, or through the fortuitous combination of self-interests, these most dangerous nuisances, arising both from slaughter-houses and cattle yards, may be removed from Baltimore's immediate vicinity.

The problem as to the removal and disposition of both garbage and night soil seems for the present, at least, to be happily solved; the contractors for the removal of these materials having performed their work to the entire satisfaction of the Board of Health.

The mode of compensation, however, agreed upon between the Mayor and City Council of Baltimore and

the contractors, for the removal of night soil, having failed, by reason of a recent decision of the Judge of the Criminal Court, your Honorable Body is called upon in some way to compensate those who in good faith have not shrunk from the strict fulfillment of their contract, without compensation, and at great pecuniary loss, unless reimbursed by the action of your Honorable Body.

In this connection, I would respectfully suggest, that as long as the present system of privy pits is continued it would be far more satisfactory to this department—and I venture to assert, to the public generally—if the contract for the removal from the city of all night soil, gathered, as at present, by about one hundred and fifty more or less irresponsible individuals, was placed in the hands of one, or at most, two, responsible contractors, for the performance of this work for the whole city.

The construction of the Harford Run and Chatsworth Run sewers I trust may be pressed to a successful conclusion during the present year, and thereby remove one of the most dangerous sources of disease, and one that has afflicted the residents of East Baltimore for many years.

It is also most desirable that the recently authorized issuance of $500,000, for the improvement of the present cobble-stone paved streets of our city, may be judiciously and promptly used. The facility offered by good pavements, for the work of street cleaning, can only be properly appreciated by those who have had the work to do. The comfort and satisfaction of clean

streets can be and is appreciated by everybody, to say nothing of its undoubted influence upon the public health.

One most important matter remains to be spoken of; and though frequently brought to our attention by the Judge of the Criminal Court, the Board of Health has been powerless to afford a remedy. I allude to the room in which the Criminal Court is at present held, and especially to the "lock-up," or room used for the confinement of prisoners during the sessions of the Court. This latter evil is absolutely intolerable, and should be corrected, even at the expense of a new Court House. No human being, however low or guilty, ought to be confined there, even for a short time, and I am sure no member of your Honorable Body could endure to inspect it even for a few moments.

It is with no small pride that I call the attention of your Honorable Body to the Department of Vital Statistics which was inaugurated in the year 1875, and is now brought to the highest perfection under the laborious and faithful conduct of Mr. A. R. Carter, Secretary of the Board of Health, and of Mr. F. W. Raborg, Recording Clerk. The promptness and accuracy with which the weekly mortuary records are made up, is, I may justly say, in advance of any other of the sixty odd cities with which we now correspond.

The returns of births by physicians and midwives have, during the past year, greatly improved, as shown by the increased number reported under that head in this report. The undoubtedly increasing population

of Baltimore is thus demonstrable, and is a source of profound gratification to the Board, as I am sure it must be to the public.

The work of street cleaning and removal of house garbage and ashes, under the able management of Dr. J. F. McShane, Assistant Commissioner of Health and his lieutenants, the Superintendents of the five districts into which the city is divided, has been most highly satisfactory to your Commissioner of Health, and as complete as the limited pecuniary means at command rendered possible. The Sanitary Inspectors have worked zealously and intelligently during the past year. In fact your Commissioner takes sincere pleasure in bearing testimony to the promptness and faithfulness displayed, without exception, by every member of the staff attached to the Health Department.

The Vaccine Physicians have done a fair amount of work during the year, and deserve especial praise for the energy displayed during the excitement of last spring. With the exception of the fourteen or fifteen cases which occurred at that period, our city has been free from Small-Pox for a number of years. Exemption from this disease can only be insured by attention to vaccination.

In conclusion, I would respectfully solicit an increase in the appropriations for the use of the Health Department for the ensuing year. All who have familiarized themselves with the work of the Department are convinced of the necessity for such an increase.

Estimate of Expenses for the Health Department for the Year 1881.

Street and garbage account	$200,000 00
Contract for removal of garbage	13,500 00
General health	15,000 00
Nuisance and sewers	10,000 00
Salaries	18,000 00
Cleaning cesspools of public schools	3,200 00
Marine Hospital	15,000 00
Post Mortems	300 00
	$275,000 00

Respectfully submitted,

JAMES A. STEUART, M. D.,
Commissioner of Health.

REPORT OF VITAL STATISTICS.

Births Recorded for the year ending December 31, 1880.

January	761	
February	663	
March	648	
April	589	
May	765	
June	653	
July	877	
August	711	
September	740	
October	877	
November	728	
December	814	
		8,826

Deaths recorded for the year ending December 31, 1880	8,043
Still Births recorded for the year ending December 31, 1880	636

Unknown Dead Recorded for the year ending December 31, 1880.

Unknown men	9
Unknown children	7

Transcripts from the Records of Births for the year ending December 31, 1880.

For family information	1

Transcripts from the Records of Deaths for the year ending December 31, 1880.

For Life Insurance Policies	12
To recover pensions from United States	16
To Orphans' Court, Baltimore city	3
To settlement of claims	1
To prove death at Savings bank	1
To go to Surrogate's Office, New York State	1
To recover money from an estate	1
To go to Record Office, Baltimore city	1
" France	1
" New York	1
" Philadelphia	3
" England	2
" Germany	4
" Peru, South America	2
For other purposes	4
	53

F. W. Raborg,

Clerk to Registrar of Vital Statistics.

TABLES.

TABLE No. 1.

Annual Report of Deaths from all Causes, in the City of Baltimore, for the Year 1880.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Abscess							1				1	1	3
" Bowels						1							1
" Brain												1	1
" Parotid Gland			1										1
" Ear				1									1
" Liver						1	1						2
" Lung						1	1						2
" Psoas									1	1			2
" Scrofulous	1												1
" Uterus	1												1
" Phlegmon	1												1
" Peritoneal				1									1
" Cervical Gland							1						1
" Hip									1				1
" at Head of Colon											1		1
Anæmia	1				1	2	1			1			6
Aneurism of Aorta	1				1				1	1	1		5

Angina Pectoris		3				1		1				1	6
Apoplexy	14	14	7	8	22	7	17	7	12	7	7	10	132
Asphyxia	3	5	1	1	1		1		2	1	1	3	19
Asthenia	5	7	5	6	4	7	11	7	4	9	5	7	77
Asthma		3		1	3	4	3	2	4	5	1	4	30
Atrophy		2		1		1				1			5
Acute Yellow Atrophy of Liver										1			1
Atelectasis Pulmonum		1										1	2
Ascites		2	2	1		1		3					9
Adynamia		1			2								3
Albuminuria			2	1		2			2	1		1	9
At Labor			1										1
Acute Necræmia				1									1
Aortic Stenosis					1								1
" Incompetency										1			1
" Regurgitation										1			1
Bright's Disease	14	9	6	9	5	7	12	3	5	7	8	9	94
Burns	2	2	5	3	1	1	1	2	2	3	5	8	34
Catarrh	1				2						3		6
" Bronchial									1				1
" Gastric			1										1
" Senile		1			1					1		1	4
" Bladder						1							1
Capillary Bronchitis	7	4	11	10	5	2	1		1	4	6	11	62
Casualties	2	3	1	1	6	1							14
Child Birth	1	2				4	2	3	2	2	2		18

TABLE No. 1—Continued.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November	December.	Total.
Cholera Infantum	1	....	....	....	45	188	169	65	26	7	2	..	503
Cholera Morbus	....	....	....	....	2	6	9	6	1	1	....	....	25
Cirrhosis of Liver	3	1	2	2	2	1	2	2	....	3	....	1	19
Concussion of Brain	1	....	....	....	....	1	1	....	1	3	....	....	7
Congestion of Brain	4	5	5	3	13	11	10	5	4	2	6	2	70
" Liver	1	....	....	2	....	....	....	1	....	1	..	....	5
" Lungs	1	6	5	9	2	5	1	1	2	3	2	1	38
" Bowels	....	1	....	....	....	....	1	....	....	1	....	....	3
" Kidneys	....	1	....	1	1	....	....	....	....	....	....	....	3
" Stomach	....	1	....	....	....	....	....	....	....	....	....	....	1
Consumption of Lungs	110	91	104	107	115	87	118	81	111	112	94	91	1221
" Bowels	....	1	1	....	....	....	....	....	....	1	2	....	5
Convulsions	37	25	17	33	60	32	35	27	19	36	27	19	367
" Puerperal	....	....	1	....	3	....	2	....	1	....	....	1	8
Compression of Brain	7	1	....	....	....	....	....	....	2	....	....	....	10
" Spinal Cord	....	....	....	....	....	....	....	....	1	....	....	....	1
Croup	13	18	19	12	11	6	6	4	7	25	24	28	173
Cyanosis	2	5	....	1	2	2	4	4	2	....	1	4	27
Congestive Chill	1	....	....	....	....	....	1	1	1	....	1	1	6

Cardiac Embolism	1												1
Collapse of Lungs		1											1
Cynanche Tonsillaris			1										1
" Trachealis									1				1
Carbuncle				1		1	1	1					4
Caries of Sternum						1							1
Cancerous Cachexia								1					1
Calculus										1		1	2
Colic											1		1
Cancer of Abdomen					1						1		2
" " Cæcum	1												1
" Diffused	1						1					2	4
" of Face				3	1		1				1	1	7
" " Leg											1		1
" " Liver	1	1		1	2	1			1	1	2	1	11
" " Bowels			1		1			2		1	1		6
" " Breast	3	3	2	1	3	2	1		3	1	2	1	22
" " Ventricular				1	1								2
" " Uterus	3	3	3	5	7	4	5	2	5	3	1	2	43
" " Stomach	5		2	2	6	3	5	2	4	6	3	2	40
" " Neck		1				3				1			5
" " Glands of Neck			1										1
" " Peritoneum						1				1			2
" " Rectum					1					1			2
" " Paratid Gland			1										1
" " Omentum						1							1
" Osteo Sarcoma				1			1						2

TABLE No. 1—Continued.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Cancer of Throat	....	....	....	1	....	....	....	....	....	....	....	....	1
" Vesicular	1	....	....	....	....	....	....	....	....	....	....	....	1
" of Larynx	....	....	....	....	....	1	....	....	....	....	....	....	1
" " Lower Jaw	....	....	....	1	....	....	....	....	....	....	....	....	1
" " Hip	....	....	....	....	....	1	....	....	....	....	....	....	1
" " Axilla	....	....	....	....	....	....	1	....	....	1	....	....	2
" " Abdominal Cavity	....	....	....	....	....	....	....	....	....	1	....	....	1
" " Nasal Cavity and Orbits	....	....	....	....	....	....	....	....	....	1	....	....	1
" " Œsophagus	....	....	....	....	....	....	....	....	....	1	....	....	1
" " Head	....	....	....	....	....	....	....	....	....	....	1	....	1
" in the Mediastinal Space	....	....	....	....	....	....	....	....	....	....	1	....	1
Drowned	....	....	3	2	7	10	12	7	6	3	1	....	51
Drowned in Night Soil Liquid	....	3	....	....	....	....	....	....	....	....	....	....	3
Dyspepsia	1	....	1	....	....	....	....	....	....	....	2	....	4
Dysentery	2	1	1	1	4	25	12	4	1	4	1	1	57
Diarrhœa	1	1	2	3	8	21	19	13	14	10	4	....	96
Dentition	6	1	1	3	5	13	27	11	13	11	4	9	104

Diphtheria	48	15	24	15	18	13	20	24	20	37	23	36	293
Diabetes	....	....	1	1	1	....	....	1	....	....	....	2	6
Delirium Tremens	....	....	....	....	1	1	2	....	....	1	....	....	5
Debility	....	....	....	....	....	....	....	1	....	1	....	....	2
Dropsy, General	7	10	4	....	3	3	2	5	2	5	3	6	50
" Abdominal	....	....	....	....	....	....	....	1	....	....	....	....	1
" Scarlatinal	....	....	....	....	....	....	....	....	....	2	1	....	3
" of Heart	....	....	....	....	....	....	....	....	....	....	1	1	2
" Renal	....	....	....	....	....	....	....	....	....	....	....	1	1
Disease of Brain	....	3	3	2	3	....	2	....	....	1	....	....	14
" Hip	1	....	....	....	....	....	....	....	....	....	1	....	2
" Liver	1	1	....	....	....	1	1	....	....	....	....	1	5
" Kidneys	....	....	....	....	....	....	1	....	....	....	....	....	1
" Spine	....	....	....	....	1	1	....	1	....	....	1	....	4
" Stomach	....	....	....	....	....	1	1	....	....	....	....	....	2
" Mesenteric Gland	....	....	....	....	....	1	....	....	....	....	....	....	1
Entero Colitis	1	....	....	....	....	8	6	3	2	....	....	1	21
" Phthisis	....	....	....	....	....	....	....	1	....	....	....	....	1
Empyema	1	....	....	....	....	....	....	....	....	....	....	....	1
Emphysema	....	....	....	....	....	....	....	....	....	1	1	3	5
Endo Carditis	1	....	....	1	1	....	2	....	....	....	....	....	5
Erysipelas	1	1	1	4	4	1	2	....	2	1	2	4	23
Epilepsy	....	....	1	1	4	....	....	2	2	1	1	2	14
Embolism	....	....	1	1	2	1	....	1	....	....	2	....	8
Exhaustion	....	....	....	1	1	....	1	1	....	....	....	....	4
Exposure	....	....	....	....	1	....	1	....	....	....	1	1	4
Excessive use of Opium	....	....	....	....	....	....	1	....	....	....	....	....	1

TABLE No. 1—Continued.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Effusion of Brain							1	1					2
Eczema								3		1			4
Epithelioma of Axilla										1			1
Enlargement of Liver												1	1
Fracture of Skull	3				3		2				2	2	12
" Femur		1		1	1	1	1				1		6
" Leg				1				1					2
" Tibia and Fibula				1	2								3
" Neck					1								1
" Temporal Bone						1							1
" Vertebræ							1						1
Fistula in Ano	1												1
Fall from Rigging							1						1
Fever, Congestive									1				1
" Bilious				1				2	1				4
" Catarrhal	1		1		1	2					3		8
" Gastro Enteric	1												1
" Intermittent	2	1		4	1	2	2	1	1	5			19
" Remittent	1		2		3	4	3	1	2		1	1	18

Fever, Malarial				1	1	1	4	2	5	7	3	2	26
" Typho Malarial		3				3	3	7	6	3	5	1	31
" Puerperal	3	4	4	1	1	1	1		1	3	3	4	26
" Scarlet	44	31	22	28	31	29	36	31	24	52	33	39	400
" Typhoid	18	7	7	6	10	13	26	17	26	28	21	17	196
" Typhus		2			2	1				2			7
" Gastric		1				1		1		1	1		5
" Brain							1	1					2
" Pernicious									1				1
" Chagres												1	1
Gastro Enteritis	2	3	1	3	6	8	11	3	4	2		2	45
General Decay of Vital Powers				1									1
Gall Stone Colic					1								1
Gastro Intestinal Catarrh					2			1					3
Gangrene Senile	2		1				1	2	2				8
Gangrene of Leg		1											1
" Lungs				1			1						2
" Angina						1							1
" Throat						1							1
" Penis												1	1
" Foot												1	1
Goitre					1		1						2
Gastric Hyperæmia					1								1
Gout								1		1	1		3
General Paresis								1					1
Gangrenous Stomatitis								1					1

TABLE No. 1—Continued.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Heart Disease	24	18	15	25	29	23	17	16	11	27	15	28	248
Hernia, Strangulated	1	1	1	....	1	1	1	....	....	2	1	1	10
" Umbilical	....	....	....	....	....	1	1	....	....	....	....	....	2
Hemorrhage of Brain	1	1	3	1	1	....	....	....	1	....	2	1	11
" " Lungs	2	....	3	2	1	....	1	1	....	....	....	1	11
" " Uterus	1	....	....	....	1	....	1	....	....	....	....	....	3
" " Bowels	1	....	....	....	1	....	....	....	1	2	....	1	6
" Umbilical	....	....	2	....	....	....	3	1	1	3	....	....	10
" Postpartum	....	1	....	....	....	....	....	1	....	....	....	....	2
Hydrocephalus	3	1	5	4	7	7	8	5	5	3	3	4	55
Hydrothorax	4	....	1	....	1	....	....	....	....	....	....	....	6
Hydrocephaloid	2	....	....	....	....	....	....	....	....	....	....	....	2
Hæmoptysis	1	....	1	2	1	....	....	....	....	....	....	....	5
Heart, Clot	....	....	1	....	....	....	....	....	....	....	....	....	1
Heart, Exhaustion	....	....	....	....	1	....	....	....	....	....	....	....	1
Hæmaturia	....	....	....	....	1	....	....	....	....	....	....	....	1
Hæmatitis	....	....	....	....	....	1	....	....	....	....	....	....	1
Hæmatemesis	....	....	....	....	....	....	....	1	....	....	....	....	1
Hydropericardium	....	....	....	....	....	....	..	....	....	1	....	....	1

Inanition	2	11	10	8	15	14	28	17	17	10	9	9	150
Insanity	1		1		2	1	1		1				7
Intemperance	2	1	1		4	1	2	2	3	7	2	2	27
Ileus	1			1									2
Indigestion		1		2		2		3					8
Intussusception			1		1	1	1		2			1	7
Infantile Catarrh			3										3
Irrepressible Vomiting			1										1
Icterus						1							1
Imperfect Circulation						1							1
Injury of Spine								1					1
Inflammation of Brain		3		2		2	1	2	1	1	1	2	15
" Bowels	1	2	2	5	7	9	10	10	5	4	3	5	63
" Stomach	3	1	4	4	4	6	5	2	2	4	7	2	44
" Bronchi	10	11	6	10	4	4	3	3	1	6	6	10	74
" Liver	1	1		2		1		1	4			2	12
" Pericardium	3	1	1			1		1		1	1		9
" Peritoneum	5	7	1	6	5	2	1	3	3	5	6	3	47
" Pleura		1	1	2	1	3	1				1		10
" Tonsils	1								1	1			3
" Kidneys		1		2	3	1	1			1	2	4	15
" Uterus		1											1
" Larynx			2	1		1	3				3		10
" Bladder					2		2	1	1			3	9
" Lungs					1		1	1					3
" Ovary							1						1
Internal Congestion							1						1

TABLE No. 1—Continued.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Jaundice	1	....	1	1	....	2	1	1	2	....	....	....	9
Laryngeal Phthisis	....	2	....	1	....	....	1	....	....	1	1	....	5
Leision of the Meninges	....	....	1	....	....	....	....	....	....	....	....	....	1
Lithotomy	....	....	....	....	1	....	....	....	....	....	....	....	1
Lecocythermia	....	....	....	....	....	....	1	....	....	....	....	....	1
Marasmus	13	14	19	15	12	31	38	21	21	24	16	16	240
Measles	....	....	1	....	1	1	6	2	1	....	....	....	12
Meningitis	10	4	3	12	22	13	14	10	5	15	6	11	125
" Tubercular	4	11	10	8	17	17	6	2	11	4	7	4	101
" Cerebro Spinal	1	2	1	1	6	....	4	2	3	3	1	2	26
" Reflex	....	....	....	....	....	....	....	....	....	....	....	1	1
Murder	2	....	1	1	....	....	1	....	2	2	....	....	9
Mal-nutrition	....	4	2	3	2	16	6	....	4	3	1	3	44
Malignant Pustule	....	1	....	....	....	....	....	....	....	....	....	....	1
Malformation	....	....	2	1	....	....	1	2	2	2	1	1	12
Metrorrhagia	....	....	....	....	1	....	....	....	....	....	....	....	1
Myelitis	....	....	....	....	....	2	....	....	....	....	....	1	3
Malarial Cachexia	....	....	....	....	....	....	1	....	....	....	....	....	1
Metritis	....	....	....	....	....	....	....	....	1	....	....	....	1

Malignant Disease of Stomach										1	1		2
Malarial Toxæmia										1			1
Metro Peritonitis										1		1	2
Necrosis		1				1			1		1	1	5
" of Laryngeal Cartilege			1										1
Nervous Prostration		1	1	1			1		1	1			6
Neurasthenmia			1	1		1							3
Neuritis						1							1
Nicotine Poisoning									1				1
Neuralgia of Heart									1				1
Non Viable									1				1
Old Age	31	13	20	16	23	15	29	18	21	22	21	22	251
Oedema of Lungs	3				1								4
" " Brain					1								1
Ovariotomy		1											1
Obstruction of Liver					1								1
" " Bowels									2				2
Osteo Sarcoma of Sacrum						1							1
Overcome by Heat							1						1
Operation for Hair Lip												1	1
Pneumonia	50	47	46	40	29	20	15	11	17	33	35	64	407
" Typhoid	4	7	3	4	4	1	1	1		3	2	8	38
" Pleuro		2	3		1					1	1	1	9
" Broncho		1	1			3	1			1	1	1	9
Puerperal Metritis	2				2		1						5

TABLE No. 1—Continued.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Total.
Puerperal Peritonitis	1	1	....	....	....	....	1	....	....	1	....	1	5
" Mania	....	....	....	....	1	1	....	....	....	....	....	....	2
" Scarlatina	....	....	....	....	....	1	....	....	....	....	....	....	1
" Septicæmia	....	....	....	....	....	....	....	....	....	1	....	....	1
Paralysis	6	12	14	9	11	15	10	9	10	13	15	14	138
Poison	1	....	....	....	3	1	....	....	....	3	1	....	9
Premature Birth	10	4	3	9	20	17	14	10	10	17	13	7	134
Pyæmia	1	....	1	1	1	1	1	1	1	....	1	....	9
Progressive Locomotor Ataxia	1	....	....	....	....	....	1	....	....	....	....	1	3
Pulmonary Engorgement	1	....	....	....	....	....	....	....	....	....	....	....	1
Protracted Labor	....	1	1	....	3	1	1	1	....	1	1	1	11
Pleural Effusion	....	1	....	....	....	....	....	....	....	....	....	....	1
Phlegmasia Dolens	....	....	1	....	....	....	....	....	....	....	....	....	1
Pulmonary Apoplexy	....	....	....	1	....	....	....	....	....	....	....	....	1
Pott's Disease	....	....	....	....	....	....	....	....	1	....	....	....	1
Purpura Hemorrhagic	....	....	....	....	....	....	....	....	....	1	....	....	1
Placenta Prævia	....	....	....	....	....	....	....	....	....	2	....	....	2
Prostatitis	....	....	....	....	....	....	....	....	....	....	....	2	2

Phthisis Mucosa												1	1
Purpura												1	1
Rheumatism				1				2					3
" Inflammatory	1		2	2	4	3			1	1	4	3	21
" Heart				1			1			1	1	1	5
Rupture of Bowels	1												1
" " Uterus			1										1
Recto Vaginal Fistula				1									1
Retention of Urine					1								1
Ricketts						1							1
Scalds	2	1					1				1	2	7
Spina Bifida	1	1			1				1		1		5
Scrofula	6	2	2	3	5	2	6	2	2	3		4	37
Softening of Brain	2	4	1	1	2	3	7	1	2		2	3	28
Septicæmia	2			1	3			2				1	9
Stricture of Intestines	1	1	2		3		1		1				9
Syncope	2			1			1						4
Suicide	1		2	3	1	2	5	1	3	2			18
Syphilis	3	3	2	2	5	4	2	1	2	3	2	2	31
Small Pox		1											1
Stricture of the Œsophagus			1					1					2
Suppression of Urine			1										1
" " Menses				1		1				1			3
Sun Stroke					1		6		1			1	9
Sclerosis of Brain								1					1
" " Liver										1			1
Stomatitis											1		1

TABLE No. 1—Continued.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Stenosis												1	1
Starvation and Ill Treatment										1			1
Tetanus					2	4	2	3	2	2		1	16
" Neonatorum	1												1
Trismus Nacentium	2	5	5	4	3	2	4	5	3	6	2	4	45
Tumor Malignant	1												1
" Abdominal	1					1							2
" Ovarian	1	2		1		1	1		1				7
" Neck		1			1								2
" Uterus		1											1
" Liver				1									1
" Stomach					1				1				2
" Brain											1		1
" Encephaloid					1								1
" Leg						1							1
" above origin of Pneumogastric Nerve											1		1
Traumatic Entero Peritonitis		1											1
" Peritonitis							1	1		1			3

Traumatic Spinal Inflammation				1									1
Thrush		1					2						3
Tabes Mesenterica			1		1	4	3	3	2		1		15
Toxæmia													
Thrombosis										1	1	1	3
Ulcer Umbilical	1												1
" Stomach	1		1	1	1	1						1	6
" Bowels		1		3	1	1						1	7
" Bladder				1									1
" Rectum							1						1
" Leg								1					1
" Uterus											1		1
" Lungs												1	1
Uræmia	2	1	2	1			4	1		2	1		14
Unknown Adults		1			1	2	3		1	1	1	1	11
" Infants	2	7	6	1	3	1	3	1	5	4	4	4	41
Vesicular Emphysema	1												1
Whooping Cough	5	6	4	4	15	13	17	21	19	22	9	13	148
Wounds			3	2		1	8	2	5	4	4	9	38
Winslow's Soothing Syrup									1				1
Grand total	652	547	528	558	779	869	962	596	598	735	563	656	8,043

A. R. CARTER, *Secretary Health Department.*

TABLE No. 1—Continued.

AGES.	January	Feb'ary.	March.	April.	May.	June.	July.	August.	Sept'ber	October.	Nov'ber.	Dec'ber.	Totals.
Under 1 year.....	130	135	121	132	240	403	356	203	145	182	130	152	2,329
Between 1 and 2 years....	43	43	42	54	53	71	104	72	60	63	35	61	701
" 2 and 5 "	63	45	49	37	53	44	50	42	35	58	43	53	572
Total under 5 years.....	236	223	212	223	346	518	510	317	240	303	208	266	3,602
Between 5 and 10 years	51	31	29	35	52	53	43	25	44	69	53	56	541
" 10 and 15 "	9	12	10	10	16	10	19	13	11	8	18	13	149
" 15 and 20 "	20	18	14	21	27	21	30	17	22	18	17	22	247
" 20 and 30 "	55	51	57	47	64	36	61	44	72	77	50	49	663
" 30 and 40 "	55	44	42	49	56	47	68	43	44	63	46	42	599
" 40 and 50 "	50	37	35	35	60	37	66	38	40	51	39	41	529
" 50 and 60 "	49	38	45	40	59	53	50	24	40	37	38	56	529
" 60 and 70 "	58	46	29	41	45	36	54	30	38	52	37	48	514
" 70 and 80 "	45	31	36	31	38	46	35	26	26	34	38	40	426
" 80 and 90 "	15	11	18	21	14	11	23	16	17	22	17	19	204
" 90 and 100 "	6	3	.....	2	2	1	3	3	4	1	2	4	31
" 100 and 110 "	3	2	1	2	.....	.....	.....	.....	.....	.....	.....	.....	8
Above 110 year.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Totals.....	652	547	528	558	779	869	962	596	598	735	563	656	8,043

NATIVITY.													
United States—White.....	392	317	276	328	486	559	611	373	355	463	337	397	4894
" Colored...	137	128	151	143	170	204	222	143	139	158	129	149	1873
Foreign.....	123	102	101	87	123	106	129	80	104	114	97	110	1276
Totals.....	652	547	528	558	779	869	962	596	598	735	563	656	8043
Still Births.....	70	43	59	48	55	60	60	43	38	53	61	46	636
WHITE.													
Males.....	246	208	195	221	316	345	391	238	230	282	240	268	3180
Females.....	269	211	182	194	293	320	349	215	229	295	194	239	2990
COLORED.													
Males.....	65	63	75	69	80	87	98	66	58	85	62	80	888
Females.....	72	65	76	74	90	117	124	77	81	73	67	69	985
Totals.....	652	547	528	558	779	869	962	596	598	735	563	656	8043
Marriages.....	280	240	213	317	260	239	197	208	313	316	348	329	3260
Births.....	761	663	648	589	765	653	877	711	740	877	728	814	8826

Estimated population, 393,796. White, 338,384; Colored, 55,412. Death rate per 1000, whole population, 20.41. White, 18.25; Colored, 34.08.

A. R. CARTER, *Secretary Health Department.*

TABLE No. 1—Concluded. *Total Number of Deaths Monthly in each Ward.*

WARDS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
First	52	43	36	33	78	85	91	55	51	71	42	44	681
Second	24	13	26	18	44	44	42	37	40	45	39	45	417
Third	26	25	15	17	33	34	39	28	15	39	26	33	330
Fourth	14	18	19	14	22	26	23	13	12	13	11	20	205
Fifth	20	19	24	24	33	27	39	24	23	23	20	24	300
Sixth	36	22	40	32	39	42	43	34	34	31	21	32	406
Seventh	50	38	45	53	57	59	84	61	55	68	59	60	687
Eighth	24	29	24	35	36	42	37	23	26	24	22	24	346
Ninth	21	18	11	17	30	20	30	23	23	18	31	23	265
Tenth	21	18	21	24	20	34	27	15	17	24	9	14	244
Eleventh	16	18	14	14	20	17	22	7	12	15	15	21	191
Twelfth	23	19	19	17	25	34	40	17	17	21	19	17	268
Thirteenth	25	14	12	19	21	22	39	17	18	19	18	20	244
Fourteenth	28	16	25	23	29	37	29	19	36	26	21	20	309
Fifteenth	33	38	22	34	48	50	53	36	20	50	20	27	431
Sixteenth	35	40	32	33	38	53	42	42	31	55	40	45	486
Seventeenth	39	27	23	24	43	50	51	32	41	38	32	30	430

Eighteenth	7.	37	40	42	60	51	85	45	42	58	49	56	638
Nineteenth	4:	49	38	46	62	92	74	26	46	46	37	50	608
Twentieth	48	46	42	39	41	50	74	42	39	51	32	51	555
Totals	652	547	528	558	779	869	962	596	598	735	563	656	8,043

A. R. CARTER, *Secretary Health Department*,

Meteorological Summary for the year 1880, Baltimore, Md.

PRESSURE.

Mean Barometer.....30.103 inches, or 0.039 inches above normal
Highest " .....30.795 " on November 24.
Lowest " .....29.320 " on February 3.
Range of " ..... 1.475 "

TEMPERATURE.

Mean Thermometer..... ....56.7 degrees, or 0.9 degrees above normal
Highest " .....99 " on July 13.
Lowest " ..... 3 " below zero, on December 30.
Range of " .....102 "
Mean Spring Temperature.....56.6 degrees.
Mean Summer " .....75.9 "
Mean Autumn " .....55.5 "
Mean Winter Temperature (1879 to 1880), 42.2 degrees, or about 7 degrees above normal.

RAINFALL.

Rain or snow fell on 164 days, measuring 41.90 inches—an increase of 5.89 inches over last year, and an excess of 0.38 inches over the normal.

WINDS.

Prevailing direction of wind, northwest.
Highest velocity of wind, 28 miles per hour, March 5 and 24.
Mean velocity of wind, 5.9 miles per hour.
Total movement of wind, 51,822 miles.

HUMIDITY, ETC.

Mean Humidity, 64.6 per cent.
First frost of season, October 19.

ROBERT SEYBOTH,
Sergeant Signal Corps, U. S. A.

TABLE No. 2.

LONGEVITY.

The following Decedents, aged Seventy Years and upwards, are reported for 1880.

White.	Ages.	Colored.	Ages.
Margaret Brown	95	Eliza Ambry	110
Annie D. Damer	91	Cassie Lynch	90
Francis Burns	87	Sarah Gwynn	86
A. K. Bodwell	80	Catharine Harrison	80
Richard Lee	80	Betsy Callahan	70
James Sayre	79	John H. Gould	70
W. H. Griffith	75	Sally Dixon	105
E. H. Garnett	75	Daniel Rider	85
Mary R. Walker	74	Dolly Truly	105
Ellen Mullen	74	E. Nelson	100
Capt. Lewis S. Hazzard	73	Louisa Cassell	80
C. H. Clarkson	71	Holdey Pitts	80
Isaac H. Cox	70	T. Campbell	78
Col. Nicholas Brewer	92	M. A. Matthews	72
Ann Harman	87	Richard Duvall	76
John Oppertshauser	86	James Morrison	74
Catharine Mattingly	83	Leah Reed	105
Sarah Matthews	80	Present Johnson	81
Amos Flemming	78	Judith Lawrence	80
Ira S. Holden	75	Amelia Arthur	80
Sophia Cogswell	74	M. A. Nettles	76
Emeline Perry	74	Nancy Johnson	74
Catharine Roemer	71	Benjamin Simms	98

TABLE No. 2—Continued.

White.	Ages.	Colored.	Ages.
Henry P. Sutor	70	Mary Webster	75
John Carrher	70	Thomas Thomas	110
Moses Neusbaum	70	Mary Dixon	74
Margaret Goetz	84	Gracie Coursey	75
W. L. Gill	82	Samuel Conier	71
Ann Lucas	78	Harriett Spriggs	84
Anna Price	75	John Price	72
Henry Weber	74	Benjamin Duncan	71
John Leimbach	72	Margaret Blake	70
Elizabeth Cammel	70	Sarah J. White	80
Kunigunda Linder	70	Maria Albner	78
Elizabeth Jay	73	James Pindle	75
Catharine E. Roeder	90	C. Johnson	88
Eva E. Rearick	86	Mary Cole	87
E. W. Snead	77	Hester Presbury	125
L. Werner	76	Fanny Montpensier	103
E. Keigler	76	Annie Snowden	100
Col. Jacob Mohler	76	Mary Sampson	88
S. M. Silence	76	Harriett Gibson	86
C. McKim	73	Henrietta Creppen	80
Jacob Zazager	97	John Blackman	77
Margaret Reip	97	Noah Dutton	75
Mrs. Widdefield	84	Annie Boley	75
B. Lupket	82	Leah Jones	80
John E. Reese	80	Hester Owings	80
William Baxter	79	Rachel Johnson	75
Mrs. Schlinkman	76	Julia Lucas	70
David McAbee	76	William Nash	70

TABLE No. 2—Continued.

White.	Ages.	Colored.	Ages.
E. T. Bowen	76	Jane Etter	97
Hurbert Mentis	76	George Washington	73
Isaac Swann	73	Charlotta Groves	70
M. A. Biggs	73	Mr. Wilson	76
John Sterzech	72	Mrs. Pratt	76
H. Spear	71	Andrew Bird	88
John J. Minnick	90	H. Green	82
A. R. Maguire	83	J. Bowen	77
Elizabeth Swearer	81	W. Fisher	85
Catharine Pfeiffer	80	Sarah Colton	80
Ann Ashton	78	Edward Yates	78
Ann Hagan	78	Mary Dixon	72
Mary Harris	89	E. R. Wilson	90
Mary Lee	85	E. Johnson	75
Susan Davis	80	S. Maddox	72
Catharine Wolf	71	M. Burs	72
George Coleman	71	Julia Carter	83
Polly Magnes	94	F. A. Davis	88
R. Bishop	82	A. Coley	87
Wm. Allen	82	J. Whitington	70
John Vance	80	Elizabeth Jones	79
M. M. Thomas	79	H. Johnson	92
R. Mitchell	76	D. Thomas	84
L. M. Barkman	75	John White	75
E. J. E. Vogel	74	E. Brown	80
H. M. Willis	72	R. Webb	78
M. Callahan	70	H. Brown	75
M. A. Harthy	70	R. Scott	72

TABLE No. 2—Continued.

White.	Ages.	Colored.	Ages.
M. Desenberg	85	G. Johnson	75
A. Bringe	80	Nancy Dorsey	87
C. Holtzman	79	Ellen Pinkney	86
J. Kilpatrick	77	Wm. Boston	86
A. Spencer	77	Luther Spriggs	84
M. C. Pennington	72	Mrs. Cammomile	76
Samuel Pistorius	97	L. Howden	70
M. Steiner	94	P. Welis	86
Rachel Medairy	81	Ruth Meyers	85
J. W. Bond	81	E. Brown	84
L. R. Gawronski	77	E. West	73
Wm. Lautenberger	76	Mary C. Campher	93
Bridget Clark	75	M. Curlet	74
T. S. Widerman	73	Elizabeth Fortu	82
George Rosenstock	72	D. Gross	81
Sarah Hall	72	R. Johnson	88
Elizabeth Starr	72	James Frisby	80
F. Schnumann	71	John Chase	80
Rosa Colar	70	S. Allen	75
Phoebe Sunderland	90	Geo. Maddux	72
Mary McKevitt	86	Aunt Molly	72
Leonard Weitzell	85	E. Bright	70
S. M. Shields	85	S. Nevitt	80
Mary Bond	84	R. Cephar	78
Ann Perry	83	Eliza Allen	80
L. Edwards	80	E. Hunter	80
Louisa Noble	80	C. Frisby	80
George Zolnhofer	79	J. Heskins	76

TABLE No. 2—Continued.

White.	Ages.	Colored.	Ages.
Catharine Baker	77	R. Haris	72
Anna M. Vollrath	74	P. Rogers	77
Henrietta Katz	73	H. Wilson	70
Unknown man	72	J. Black	78
L. Plummer	71	F. Simms	75
Elizabeth Lawlor	71	S. Bias	70
Jacob Hann	82	Mary Rollins	70
Priscilla Frazier	82	A. Bowers	88
M. A. Gist	80	Sam'l R. Smith	78
George DeGaebel	79	S. S. Johnson	74
C. Brown	77		
Bridget Spearman	75		
Antonio Trojan	75		
John McGee	72		
Ann M. Kessler	72		
E. Todhunter	95		
C. Clarke	90		
Barbara Gloss	90		
Annabella Fisher	88		
Annie M. Hinkle	87		
Jane Mege	72		
John Ogie	71		
J. Whistler	70		
E. Jones	70		
Ellen Harp	89		
M. Prentiss	89		
Alexander Dunn	84		
Samuel Smith	82		

TABLE No. 2—Continued.

White.	Ages.	White.	Ages.
John Michell	82	J. Pappa	75
Elizabeth Zirkel	80	Mary Miller	73
E. Eckofstein	77	J. McGahan	73
Joseph Leutenberger	75	Sarah Kuhn	73
S. H. Adams	74	M. Richards	85
Elizabeth Arnold	74	E. McLane	85
C. E. Wolf	73	John Brown	82
W. Murphy	71	E. Macleslan	80
M. A. Wooden	79	M. B. Sellers	80
G. McGennan	95	M. Norton	78
J. Atkinson	85	Maria Sharp	77
Caroline Lamden	83	Henry Wilson	77
David McDonald	80	F. Wagner	75
Ellen Dillaway	78	M. Minifie	74
C. Dohme	73	W. Sutaleff	73
B. Nash	72	S. Christ	72
A. L. Tate	72	John Reisinger	70
C. Kauffman	71	S. O. Brian	70
Alexander Gould	70	C. McCun	90
P. F. Young	70	Lydia Carter	88
H. West	79	E. Chamberlain	88
W. Stinner	78	Sophie Auld	83
S. Zellner	78	Ann Schreiner	81
E. H. Ard	78	C. Hartman	81
C. Hess	78	Jacob Westred	79
J. Armiger	78	Rachel Talbot	77
C. Winkelman	77	Elizabeth Brown	72
M. Bogmin	76	J. Dalrymple	88

TABLE No. 2—Continued.

White.	Ages.	White.	Ages.
Bridget Mack	77	Rachel Lancaster	79
S. T. Woodward	76	Catharine Kelly	73
Alex. Forsythe	75	Ann R. Raborg	71
Jane Hussey	83	Frederick H. Schroeder.	71
J. Marcussi	83	Mrs. McCauley	90
Sarah Donelson	81	H. McElderry	86
H. F. Funk	77	Mrs. Broderick	83
K. Hillgardier	77	Mrs. Wylie	83
Mary E. Newton	75	Mr. Leppo	80
Joseph Lough	74	Mrs. Playher	80
Rosa Weiler	74	Mrs. Herberich	80
Levi Rosenthal	73	Mr. Bauer	78
Capt. Robert Benthal	71	Mrs. Thomas	75
George F. Seebo	71	Mrs. Schleigh	75
James Henry	73	Mr. Rogers	75
Bernard Berney	72	Mrs. Stauf	75
Rebecca Tucker	72	Mrs. Wheat	72
Elizabeth Rester	72	Mr. Hall	72
Samuel Jeffers	71	G. E. Morrill, D.D.S.	70
Bridget Dougherty	70	J. J. Kurtz	84
James Plunkitt	70	Mary A. Wood	81
Clara H. Johnson	91	F. Kullman	79
Elizabeth R. Warfield	90	M. C. Hamilton	77
Susie Frisler	88	C. Punett	76
R. R. Goodspeed	86	C. Cavenaugh	75
Alexander Jannison	85	John Weir	72
Mary Vanarsdale	85	R. Murdoch	72
Susan Myers	79	B. Rusk	70

TABLE No. 2—Continued.

White.	Ages.	White.	Ages.
Julia Quinn	88	John Thalheimer	80
A. W. Deems	80	Gen. H. A. Thompson	80
A. Patterson	79	Anna Heimel	78
John Smidt	79	Mary Herman	77
Dr. R. Fulton	77	P. Werneth	71
J. Aldrichs	76	Eliza Wilson	85
J. Gorsuch	76	Kate Kuber	84
C. Pasquay	75	E. R. B. C. Hoffman	84
Herman Clausing	71	John Ryan	80
Alice White	70	M. Fergerson	78
James Quinn	70	John B. Messer	78
Rachael Pumphrey	88	Margaret Theile	78
Phillip McIntire, Sr	88	Nancy Arens	70
Charles A. Wartman	85	Catharine Wegner	70
Barbara Doster	84	Mary N. Frifogle	86
Mary A. Chistopher	82	C. Webb	84
Susanna Minzie	80	Aaron Fenton	81
Elizabeth Adams	80	Mary Cowick	80
Mary P. Lloyd	80	J. Anderson	79
Charity Palmer	80	Lydia Basser	75
Louisa Rupp	78	George A. Davis	75
Nancy Cohee	77	Lydia Greely	74
Margaret Russell	76	Charles Reynolds	74
William McPhail	74	Mary Cross	73
Courtney Butler	74	John Snyder	71
Ann McCarthy	73	Julia Rodgers	92
Catharine E. Massicott.	87	Sophie E. Layton	89
Esther Russell	83	B. Thomson	76

TABLE No. 2—Continued.

White.	Ages.	White.	Ages.
J. A. Simpson	75	William Austin	78
H. Curran	75	Catharine Worley	76
E. W. Coonan	75	John C. Long	73
John Hart	75	C. G. Hunt	73
Peter Cronenburg	71	William Dew	72
Mr. Coupland	81	John D. Ross	70
Mrs. Scribner	80	Mary Ann Compton	93
Mrs. Matthews	78	C. Hildebrandt	86
Mrs. Alberts	77	Francis Corrigan	85
Mrs. Kurle	74	Margaret David	85
Mrs. Guyther	73	Sarah Davis	84
Mr. Storg	71	Elizabeth Schroder	84
Mrs. Kilman	70	Ann Wise	82
E. Warner	75	Mary Ann Welsh	77
C. Sholtz	73	Annie B. Agnus	76
J. Methaney	73	E. W. Ransome	75
Alice W. Brooks	76	J. M. Halbert	75
Margaret Regan	72	Regina Sterz	72
John G. Rehkugler	71	Margaret Dun	72
Joseph Duncan	70	E. J. Lietch	94
Mary A. Hill	70	M. Carroll	88
S. H. Springer	103	John A. Guntz	82
B. Kirby	83	John V. Emich	82
Louisa Carlin	86	M. J. Hickman	81
Eliza Deets	80	Lydia G. Amos	79
D. Miller	80	A. Weber	78
A. Frank	80	Catharine Clapp	75
J. B. Wheat	79	Sophia Winters	75

TABLE No. 2—Continued.

White.	Ages.	White.	Ages.
L. Cooney	74	S. Sparklen	80
John G. Weilage	74	K. Mackert	76
Eliza Furlong	72	Mrs. Hainster	76
S. F. Prigg	73	L. Jones	76
Margaret Alig	73	L. Clancey	75
J. Morland	90	F. Heilner	75
Alexander Brown	87	T. Wayland	72
F. Klingsher	83	E. Cullison	70
Margaret Schissler	81	A. Dwyer	70
Sarah Welsh	76	M. Hartlein	85
Wilson B. Morgan	74	C. Murphy	83
Moses W. Javis	72	P. McDonald	83
John Hurst	73	C. Bischof	77
H. Mercer	86	A. E. Hascket	73
Elizabeth Brown	83	B. Schultz	97
J. A. Herbert	81	A. Paul	92
Geo. H. Hellerman	80	E. Batchelor	90
Elizabeth Bailey	78	M. Neely	89
L. F. Stolpp	76	J. L. Thomas	85
C. McCarthy	76	M. Tilyard	85
G. W. Lucas	76	B. McCusker	82
E. Crumbacher	77	J. R. Roche	76
B. W. Haughey	75	R. Graflin	76
H. P. Horton	73	A. Eckhart	75
E. Mantz	83	E. Keely	74
May Goode	83	J. G. Keller	74
M. Arnold	82	H. Frost	70
Ann Gunn	80	Ann Fenwick	94

TABLE No. 2—Continued.

White.	Ages.	White.	Ages.
E. Fowler	89	Elizabeth Walton	71
Hester Newman	82	John Griell	71
Ann Morey	80	G. Strauss	70
Sophia C. Ring	80	Elizabeth Giffin	86
Eva Graepner	80	Sarah Tyson	85
Michael Karmann	78	M. Statzberger	82
John A. Janette	76	C. Streck	80
Margaret Jones	75	S. Williams	80
Anna E. Berg	74	Israel Hall	75
E. Canavan	73	Eliza Lawrence	75
R. W. Marriott	73	Peter A. Walker	73
Catharine Dehn	72	H. Rosenbaum	90
Rebecca Murphy	72	Mary T. Paul	98
H. J. Hackett	88	Joseph J. Stewart	87
Catharine Morris	86	T. Hunt	83
J. W. Beckman	85	R. C. F. Waters	82
Eliza Powers	84	Rev. W. S. Plumer, D.D.	78
Henry Sharp	81	Charles Weiler	78
William A. Moale	80	Sarah Wheeler	77
Dr. Thomas Stewart	78	A. E. Shipley	76
Hannah Dorsey	75	Mary Zeller	75
C. McMahon	96	B. Kelly	75
John Cook	85	B. Undutch	75
A. Stevens	84	J. P. Rousselot	73
Susanna Smith	79	John Boyd	72
David Batchelor	78	Andrew Reuter	71
Eliza Donohue	77	E. V. Knight	70
Mrs. K. Auer	78	Mary Crowley	70
Thomas Faulkner	75	Dr. J. W. Roland	84
S. Cullison	73	S. A. Bristor	84
J. L. Betts	76	E. Schultz	82
A. M. Pardroff	92	H. Miller	80
C. Raps	88	Wm. Minifie	75
A. Curnal	80	C. Holland	75
C. Lautenberger	75	Jacob Wilson	71
M. Heaphy	74	P. Wilkenson	86
D. Ingalls	73	M. Downey	85

TABLE No. 2—Continued.

White.	Ages.	White.	Ages.
Henry Klinefelter	82	M. Rausher	79
M. Cunningham	78	H. Huppfeld	76
M. M. Fortune	78	W. H. Klein	76
Ella Greenebaum	75	M. Storch	86
L. Rausch	74	S. Green	75
Elizabeth Brown	72	M. Rodenwald	74
Margaret Gregg	71	M. Kinewell	73
Margaret Oliver	99	Mr. Bridekamp	73
Mary Free	91	A. C. Morris	71
Isaac Simpson	87	Elizabeth Black	86
C. B. Hamilton	81	John Lyons	85
Thomas Hayes	78	Wm. Taylor	83
Anton Ohden	77	C. Bowen	83
Regina Krambo	76	A. Shakespeare	82
Amelia Lusby	75	Elizabeth Winder	81
H. Eloise	72	R. Kenly	80
Catharine Wright	71	James Jones	79
Sister Mary O'Brien	71	Eliza Roloson	77
Martha Riley	85	L. D. Larkin	77
H. Stevenson	83	M. Lang	76
E. Stauff	81	Adam Brunder	76
C. Jackson	81	Hiram Cole	74
Mrs. Cole	77	Wm. Tuckner	74
Ann Crosby	77	George Brandt	72
Mr. Sprucebanks	74	C. Einwaechter	71
D. Henlein	73	G. Macomber	71
E. E. Stagmer	72	Peters Lenners	70
J. B. Harris	72	J. E. Earl	92
George Weiss	73	Rebecca Wooden	88
A. Bell	72	Joseph Judik	85
John R. Kelso	90	Elizabeth Hope	84
F. Zachardea	86	Catharine Lane	83
Nancy Thomas	85	Elizabeth Smith	81
C. French	85	Ellin M. Poultney	81
M. Rodgers	85	Lewis E. Pontier	81
S. C. Reed	80	B. Stern	80
John Thele	90	Robert Betts	79

TABLE No. 2—Concluded.

White.	Ages.	White.	Ages.
Mary Childs	78	Jane D. Russell	70
Mary Skally	77	Jacob Knipe	91
Peter Woods	76	W. Schwan	84
James McCourt	75	M. Ledley	80
P. Hawkins	75	E. Powell	76
M. McCleary	70	John J. Abrahams	71
C. Deranish	92	Eliza A. Burnett	74
Conrad Mantz	86	William Mears	72
D. Plitt	80	M. Wolfeman	71
L. Kemp	80	Ann Jordon	91
P. O. Donovan	77	B. Bear	86
M. D. Baccigalippi	74	Sarah Horn	82
Esther Arnold	74	Joseph Allard	76
George Shilling	73	Cassandra Frush	72
James Stewart	71		

Making a total of 709 decedents aged seventy years and upwards, of which number 592 were white, and 117 colored; their combined ages amounting to 56,371 years, averaging 79 years 4 months.

WHITE.			COLORED.		
Ages.	Number.	Total Years.	Ages.	Number.	Total Years.
103	1	103	125	1	125
90 to 99	39	3,612	110	2	220
80 to 89	197	16,295	105	3	315
70 to 79	355	26,901	103	1	103
			100	2	200
Total	592	46,911	90 to 99	6	560
			80 to 89	43	3,579
Averaging 79 years 2 months.			70 to 79	59	4,358
			Total	117	9,460
			Averaging 80 years.		

A. R. Carter, *Secretary.*

TABLE No. 3.

Report of Vaccine Physicians for Twelve Months ending December 31, 1880.

Wards.	Names of Physicians.	Residence.	Number of Calls.	Number of Vaccinations.	Primary.	Secondary.	Successful.	Failed.	Not heard from.	Males.	Females.	White.	Colored.	Re-Vaccinated.	Certificates of Vaccination given.
1st and 2d	J. M. Sullivan.....	116 Thames street.....	5,606	631	403	228	431	111	89	326	305	591	40	47	518
3d " 4th	C. M. Morfit....	67 E. Baltimore street....	700	183	80	103	80	54	49	86	97	176	7	.....	.....
	S. H. Martin....	133 E. Pratt street.....	1,249	170	169	1	156	14	...	80	90	162	8	...	80
5th " 6th	E. George Walls.	27 N. Broadway.....	372	230	123	107	200	30	....	140	90	180	50	...	.....
	E. C. Jordan....	80 Aisquith street.....	784	228	200	28	291	37	....	106	122	143	85	50	30
7th " 8th	E. Hall Rutledge..	151 Aisquith street.....	2,080	1181	475	706	749	119	313	512	669	994	187	119	450
9th " 10th	J. H. Scarff.....	4 Cathedral street.	322	460	149	311	295	106	59	193	267	330	130	...	362
	J. V. Coonan....	42 N. Calvert street.....	816	90	74	16	43	30	17	27	63	33	57	...	40
11th " 12th	Isham R. Page...	220 Linden avenue.....	2,065	432	273	159	297	88	47	187	245	148	284	...	250
13th " 14th	B. F. Phillips...	319 W. Lombard street..	791	566	85	481	413	45	108	291	275	512	54	...	20
	H. Darling.....	252 W. Lexington street.	726	97	50	47	45	15	37	42	55	40	57	...	50
15th " 16th	S. A. Bell.....	161 S. Sharp street.....	871	420	350	70	296	54	70	200	220	305	115	...	350
	John D. Blake..	168 S. Paca street.....	1,234	278	192	86	72	19	187	158	120	221	57	13	1500
17th " 18th	James Bosley...	319 Hollins street.....	500	1667	453	1214	378	105	1184	811	856	1593	74	...	.....
	R. B. Fishburne.	369 Light street.....	1,028	316	276	40	75	60	181	171	145	309	7	...	632
19th " 20th	Silas Baldwin...	152 W. Townsend street.	1,684	1315	211	904	....	...	...	507	808	716	599	...	.....
	A. H. Saxton....	543 W. Lexington street.	439	203	367	36	144	35	....	126	77	130	73	...	475
		Totals.....	21,187	8467	3930	4537	3965	922	2341	3963	4504	6583	1884	229	4857

TABLE No. 4.

General Health Account for the Twelve Months ending December 31st, 1880.

Dr.			Cr.	
To 275 Checks on Comptroller	$13,089 50	By 9 vouchers, cleaning cess-pools.....	$2,227	50
		" 12 " Sanitary Inspectors.....	5,175	00
		" 68 " coffins.....	1,438	75
		" 23 " interments....	997	25
		" 22 " destroying and restoring infected bedding, clothing, &c	887	01
		" 51 " advertising....	397	23
		" 7 " lime and disinfectants...	344	96
		" 1 " printing annual reports	315	00
		" 34 " postage and cards.....	256	19
		" 3 " wagons and repairs	238	45

		"	4	"	Superintendents night soil dumps.	160 52
		"	3	"	printing health ordinances, &c..	140 00
		"	9	"	telephones and rent of same	127 29
		"	1	"	head boards...	90 00
		"	3	"	desks and repairs.....	37 25
		"	4	"	analyses of water.....	36 00
		"	2	"	tolls.....	19 30
		"	1	"	car fare.....	10 80
		"	1	"	directories.....	8 00
		"	6	"	post-mortems.	150 00
		"	11	"	sundries.....	33 00
To 275 Checks on Comptroller	$13,089 50	275			vouchers for 12 months.	$13,089 50

A. R. CARTER, *Secretary Health Department.*

TABLE No. 5.

Salary Account for Twelve Months ending December 31st, 1880.

Dr.		Cr.	
To 14 Checks on Comptroller.	$17,700 00	By 1 voucher, January 1, 1880.	$1,174 97
		" 1 " Jan'y 31, " .	1,175 06
		" 1 " March 1, " .	2,074 97
		" 1 " April 1, " .	1,175 06
		" 1 " May 1, " .	1,174 97
		" 1 " May 17, " .	82 19
		" 1 " June 1, " .	1,992 79
		" 1 " July 1, " .	1,174 97
		" 1 " July 30, " .	1,175 06
		" 1 " Sept'r 1, " .	2,074 97
		" 1 " October 1, " .	1,175 06
		" 1 " Nov'r 1, " .	1,175 06
		" 1 " Dec'r 1, " .	1,974 87
		" 1 " Dec'r 2, " .	100 00
14 Checks on Comptroller.	$17,700 00	14 vouchers for 12 months..	$17,700 00

A. R. Carter, *Secretary Health Department.*

TABLE No. 6.

DR. *Nuisance and Sewer Account for the Twelve Months ending December 31st, 1880.* CR.

To 102 Checks on Comptroller.	$7,722 23	By 15 vouchers, salaries of Superintendents.....	$4,455 96
		" 32 vouchers, J. W. Lee, sewer work.....	1,558 88
		" 10 vouchers, H. Paff, sewer work.....	399 61
		" 18 vouchers, wagons and repairs.....	503 63
		" 10 vouchers, lime and disinfectants.....	419 81
		" 7 vouchers, abating nuisances.....	163 16
		" 3 vouchers, removing filth from Basin.....	110 70
		" 1 voucher, paving.....	58 20
		" 1 voucher, pipe laying....	20 00
		" 3 vouchers, tools.....	14 53
		" 2 vouchers, stove and brooms.....	17 75
102 Checks on Comptroller.	$7,722 23	102 vouchers for 12 months.	$7,722 23

A. R. CARTER, *Secretary Health Department.*

TABLE No. 7.

DR. *Marine Hospital Account for the Twelve Months ending December 31st, 1880.* CR.

To 98 Checks on Comptroller.	$14,994 69	By 11 vouchers, pay rolls.....	$10,210 50
		" 10 vouchers, provisions.....	1,073 92
		" 11 vouchers, groceries.....	842 83
		" 16 vouchers, repairs and painting.....	661 54
		" 9 vouchers, coal.....	596 14
		" 3 vouchers, horse and cows.....	207 50
		" 5 vouchers, small-pox nurses.....	170 41
		" 2 vouchers, paints and oils.....	152 71
		" 3 vouchers, labor.....	134 65
		" 1 voucher, clothing.....	195 80
		" 1 voucher, ice.....	133 98
		" 5 vouchers, furniture.....	125 05
		" 4 vouchers, medicines.....	103 29
		" 3 vouchers, feed.....	63 60
		" 1 voucher, supplies.....	38 40
		" 2 vouchers, felt and coffin.	17 21
		" 1 voucher, fracture splint	25 00

		"	1 voucher, U. S. Inspector.	25 00
		"	1 voucher, flag.....	14 00
		"	2 vouchers, horse-shoeing	11 25
		"	1 voucher, seeds.....	16 40
		"	2 vouchers, American and Gazette.....	12 50
		"	1 voucher, life preservers.	10 00
		"	1 voucher, guano.....	17 50
		"	1 voucher, sundry bills....	135 51
98 Checks on Comptroller.	$14,994 69		98 vouchers for 12 months.	$14,994 69

A. R. CARTER, *Secretary Health Department.*

TABLE No. 8.

Statement of Disbursements of the Health Department for Twelve Months ending December 31st, 1880.

Street and Garbage Account, including contract for the removal of garbage	$192,000 00
General Health Account, including post-mortems	13,089 50
Salary Account	17,700 00
Nuisance and Sewer Account	7,722 23
Marine Hospital Account	14,994 69
Total disbursements for twelve months	$245,506 42

Unexpended Balances.

Nuisance and Sewer Account	$178 95
Marine Hospital Account	5 31
Post-mortem Account	150 00
	$334 26

A. R. CARTER, *Secretary Health Department.*

REPORT

OF THE

General Superintendent of Streets.

REPORT.

Baltimore, January 1st, 1881.

JAMES A. STEUART, M. D.,

Commissioner of Health:

SIR—In compliance with duty, I most respectfully submit the following report of the work performed by this branch of the department:

Number of loads of garbage and ashes removed	145,485
Number of loads of street dirt, ice, sand, snow, &c., removed	162,092
Total number of loads of all kinds removed	307,577
Cost of removal of garbage and ashes	$87,355 50
" " street dirt, &c	86,852 85
" dumps	3,471 00
" tools and incidentals	2,100 06
	$179,779 41
Amount of annual appropriation for Street and Garbage Department	178,500 00
Deficiency	$1,279 41

Average cost per load, 58½ cents.

The foregoing statement shows that the work of this department has been performed at a less cost than in previous years; yet the fact must not be lost sight of, that there has been an increase in the number of paved streets, new buildings and sewers, all of which entail upon this department a greater amount of work, and for which a corresponding increase should be made in the appropriation.

Every endeavor has been made to keep the city in a cleanly condition, but the amount appropriated for this purpose is insufficient; consequently the work of scavenging has not approached the standard desired.

No department of public sanitation should receive greater attention than that which relates to general cleanliness and the removal of filth in the many disagreeable forms in which it forces itself upon the public mind, by its odor or unsightliness.

There is no more important service performed by this department than the cleaning of streets and the removal of garbage and ashes. The immense amount of territory embraced within the limits of the city, makes it a difficult service, in consequence of the insufficient force employed, and the distance to which we are compelled to carry the refuse; yet, notwithstanding these drawbacks, there is a satisfaction in knowing that, during the past year, the work performed has been generally commended.

There is still room for improvement, but this depends, to some extent, upon conditions beyond the control of this department. I refer more particularly to

the many nuisances caused by imperfect paving, and neglect in repairing streets after the laying of water and gas pipes. The passenger railway companies should also be compelled to repair such streets as they occupy with their tracks. Too much attention cannot be paid to the work of securing the best pavements for our city. In a sanitary point of view, it should be of good material and impermeable, to prevent sub-soil pollution, and afford the best means for rapid drainage and thorough cleaning. All these improvements will contribute towards keeping the streets in a cleanly condition, and redound to the credit of our city. With a desire to do everything possible to preserve the public health and add to the efficiency of the service, with your consent I have had the work of street cleaning done at night in the business portions of the city during the past year. This plan has been faithfully carried out, and the results have been most satisfactory.

In addition to the street and garbage department, there are other works pertaining to the duties of this position, of which I take the privilege of speaking of in this report.

SEWERS.

Baltimore has no regular system of sewers; the present sewers of the city being constructed simply for the removal of storm-water. The outlet for the whole system is the river front, which is in the direction of the prevailing winds; the outlets are usually partly submerged, consequently they are not self-cleansing,

and are frequently obstructed, causing deposits which this department is compelled to remove.

The sewers are imperfectly ventilated, and the most of the ventillation is through the inlets and interiors of houses connected therewith. The sewers, with few exceptions, as at present ventilated, afford encouragement to the development of preventable diseases, and so long as they remain improperly trapped and ventilated, a prejudice will exist against their construction, and will produce serious annoyance and detriment to health. Ventilation consists in something more than the removal of odors, the presence of which is no indication of danger. Those gases due to animal and vegetable decomposition, viz: carbonic acid, sulphuretted and carburetted hydrogen, nitrogen and ammonia, make themselves known, whilst the organic vapor, which is the most dangerous, does not generally indicate its presence by any odor, but carries with it the germs of poison, which are active agents for the spread of disease. The importance of removing bad air from the sewers cannot be over-estimated. Without attempting to describe the numerous devices for the purpose of sewer ventilation, the result of past experience proves that the more freely air is allowed to escape from the sewers from all points, except the interior of houses, the better it will be for public health. There would be little or no complaint of the nuisances now so common, if there were frequent openings (man-holes,) into the streets for the free entrance and exit of air.

During the past year there was removed from the different sewers 2213 loads of filth, &c. In May last the City

Council passed an ordinance granting this department the use of the city water supply, for the purpose of flushing sewers; but this ordinance has been inoperative, in consequence of the insufficient supply. There can be no doubt, that had there been a sufficient supply of water for this purpose, in many instances slight deposits on the bottom of sewers could have been rendered innocuous.

Your instructions in reference to the free use of lime in all alleys, gutters, vacant lots and places where stagnant pools of water were to be found, have been faithfully carried out. During the heated term there was distributed 10,183 bushels of lime throughout the city, also 7,006 lbs. of carbolate of lime.

A large number of alleys have been repaired, graded and paved, and vacant lots in low and marshy districts filled, as well as a great variety of nuisances which have been abated. There will be found annexed a tabular statement of the work performed by the Sanitary Inspectors, and the number of nuisances abated.

In addition, there was removed 110 cart loads of decayed animal and vegetable matter from the docks and harbor during the summer months.

During the past year, a special force was employed in each district alone upon the alleys, which they were required to clean, if possible, once a week.

The streets bounding all the market houses are cleaned three times a week by the street men, which takes from our appropriation a large amount of money, and retards the general street work.

The tables accompanying this report will give you an exact account of the work of the street and garbage department, showing the number of loads of garbage, ashes, street dirt, ice, snow, &c., collected and removed, the number of men and carts employed in each of the districts, and the amount of money expended in each.

In conclusion, I return you my thanks for the courtesy extended toward me, and hope that my humble efforts have met with your approval.

I remain,

Very respectfully,

Your obedient servant,

JAMES F. McSHANE, M. D.,

Assistant Commissioner of Health and General Superintendent of Streets.

TABLES.

TABLE A.

Weekly Report showing amount of work done and number of men employed in the several Districts; also amount of money expended for same, for twelve months ending December 31, 1880.

FIRST DISTRICT. B. V. KELLY, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed.	Total amount of Expenditures.
Week ending Jan'y 3d..	461	585	$225 00	$301 50	15	11	18	1046	$526 50
" " 10th.	561	575	225 00	322 50	15	10	20	1136	547 50
" " 17th.	545	635	225 00	333 75	15	11	20	1180	558 75
" " 24th.	532	680	225 00	372 75	15	12	25	1212	597 75
	2099	2475	$900 00	$1330 50	60	44	83	4574	$2230 50
Week ending Feb'y 2d..	458	833	$225 00	$429 75	15	14	26	1291	$654 75
" " 8th.	548	1744	270 00	424 50	15	15	32	2292	694 50
" " 14th.	515	1445	270 00	409 50	15	15	32	1960	679 50
" " 21st.	548	1041	270 00	504 75	15	15	35	1589	774 75
	2069	5063	$1035 00	$1768 50	60	59	125	7132	$2803 50

Week ending Feb'y 28th	533	1075	$270 00	$488 95	15	15	35	1608	$758 95
" March 6th	515	845	270 00	453 75	15	15	26	1360	723 75
" " 13th	557	744	270 00	397 50	15	12	25	1301	667 50
" " 20th	563	827	288 00	405 75	16	13	27	1390	693 75
" " 27th	600	925	288 00	459 00	16	13	28	1525	747 00
	2768	4416	$1386 00	$2204 95	77	68	141	7184	$3590 95
Week ending April 3d..	570	880	$288 00	$471 00	16	13	30	1450	$759 00
" " 10th.	567	900	288 00	497 25	16	14	31	1467	785 25
" " 17th.	548	913	288 00	468 00	16	13	26	1461	756 00
" " 24th.	567	790	288 00	507 75	16	13	33	1357	795 75
	2252	3483	$1152 00	$1944 00	64	53	120	5635	$3096 00
Week ending May 1st..	588	915	$288 00	$474 75	16	14	34	1503	$762 75
" " 8th..	584	970	240 00	456 00	16	15	35	1554	696 00
" " 15th..	554	692	240 00	368 25	16	15	26	1246	608 25
" " 22d ...	560	952	240 00	492 75	16	15	36	1512	732 75
" " 29th..	566	1125	240 00	504 00	16	15	37	1691	744 00
	2852	4654	$1248 00	$2295 75	80	74	168	7506	$3543 75

TABLE A—Con inued.

FIRST DISTRICT. B. V. KELLY, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed.	Total amount of Expenditures.
Week ending June 5th.	508	1070	$240 00	$468 00	16	15	30	1578	$708 00
" " 12th.	523	1080	240 00	433 50	16	16	28	1603	673 50
" " 19th.	565	910	240 00	423 00	16	15	29	1475	663 00
" " 26th.	475	1145	240 00	427 50	16	14	29	1620	667 50
	2071	4205	$960 00	$1752 00	64	60	116	6276	$2712 00
Week ending July 3d...	552	1163	$240 00	$442 50	16	15	29	1715	$682 50
" " 10th.	480	855	288 00	324 00	16	11	20	1335	612 00
" " 17th.	492	715	288 00	297 00	16	9	20	1207	585 00
" " 24th.	470	1600	288 00	399 75	16	15	20	2070	687 75
	1994	4333	$1104 00	$1463 25	64	50	89	6327	$2567 25

Week ending August 2d.	488	865	$288 00	$336 00	16	10	23	1353	$624 00
" " 9th	510	785	288 00	324 00	16	10	23	1295	612 00
" " 16th	528	570	288 00	303 00	16	9	20	1098	591 00
" " 23d.	574	655	288 00	301 50	16	9	21	1229	589 50
" " 30th	554	705	288 00	300 00	16	9	21	1259	588 00
	2654	3580	$1440 00	$1564 50	80	47	108	6234	$3004 50
Week ending Sept. 6th.	522	705	$288 00	$302 25	16	9	22	1227	$590 25
" " 13th.	517	565	288 00	295 50	16	9	21	1082	583 50
" " 20th.	528	645	288 00	264 75	16	10	20	1173	552 75
" " 27th.	499	615	288 00	260 25	16	9	21	1114	548 25
	2066	2530	$1152 00	$1122 75	64	37	84	4596	$2274 75
Week ending Oct. 2d....	489	700	$288 00	$309 00	16	9	22	1189	$597 00
" " 9th..	499	915	240 00	382 50	16	10	22	1414	622 50
" " 16th..	486	1262	240 00	419 25	16	12	24	1748	659 25
" " 23d....	424	1410	240 00	402 00	16	12	22	1834	642 00
	1898	4287	$1008 00	$1512 75	64	43	90	6185	$2520 75

TABLE A—Continued.

FIRST DISTRICT. B. V. KELLY, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
Week ending Oct. 30th..	472	910	$240 00	$342 00	16	12	25	1382	$582 00
" Nov. 6th..	493	895	240 00	360 00	16	12	26	1388	600 00
" " 13th..	473	840	240 00	348 75	16	12	22	1313	588 75
" " 20th..	740	519	240 00	370 50	16	12	24	1259	610 50
" " 27th..	481	552	240 00	248 25	16	10	19	1033	488 25
	2659	3716	$1200 00	$1669 50	80	58	116	6375	$2869 50
Week ending Dec. 4th..	479	620	$240 00	$260 25	16	10	22	1099	$500 25
" " 11th..	524	660	240 00	266 50	16	10	23	1184	506 50
" " 18th..	474	645	240 00	279 00	16	10	24	1119	519 00
" " 25th..	579	986	288 00	399 00	16	10	24	1565	687 00
	2056	2911	$1008 00	$1204 75	64	40	93	4967	$2212 75

SECOND DISTRICT.									
THOS. KERNAN, Sup't.									
Week ending Jan'y 5th.	396	288	$270 00	$292 50	18	12	19	684	$562 50
" " 12th.	408	297	270 00	285 00	18	13	23	705	555 00
" " 19th.	404	284	270 00	299 25	18	13	25	688	569 25
" " 26th.	405	298	270 00	271 50	18	13	24	703	541 50
	1613	1167	$1080 00	$1148 25	72	51	91	2780	$2228 25
Week ending Feb'y 2d..	403	354	$270 00	$342 00	18	13	26	757	$612 00
" " 9th	398	653	324 00	296 25	18	13	29	1051	620 25
" " 16th.	400	450	324 00	296 25	18	13	26	850	620 25
" " 23d..	409	330	324 00	355 50	18	13	30	739	679 50
	1610	1787	$1242 00	$1290 00	72	52	111	3394	$2532 00
Week ending March 1st.	407	338	$324 00	$311 20	18	11	20	745	$635 20
JOSEPH P. SCOTT, Sup't.									
Week ending March 6th.	467	279	324 00	261 50	18	9	14	746	585 50
" " 13th.	466	221	324 00	238 50	18	9	14	687	562 50
" " 22d..	468	127	324 00	154 50	18	9	14	595	478 50
" " 29th.	467	327	324 00	290 25	18	9	15	794	614 25
	2275	1292	$1620 00	$1255 95	90	47	77	3567	$2875 95

TABLE A—Continued.

SECOND DISTRICT. JOSEPH P. SCOTT, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
Week ending April 5th.	471	342	$324 00	$311 25	18	9	14	813	$635 25
" " 12th.	471	369	324 00	306 00	18	9	16	840	630 00
" " 19th.	474	360	324 00	320 25	18	9	18	834	644 25
" " 26th.	478	378	324 00	285 00	18	9	15	856	609 00
	1894	1449	$1296 00	$1222 50	72	36	63	3343	$2518 50
Week ending May 3d...	483	256	$324 00	$216 00	18	9	16	739	$540 00
" " 10th.	394	270	270 00	318 00	18	9	17	664	588 00
" " 17th.	401	310	270 00	310 50	18	10	15	711	580 50
" " 24th.	399	320	270 00	313 50	18	10	16	719	583 50
	1677	1156	$1134 00	$1158 00	72	38	64	2833	$2292 00

Week ending May 31st..	360	340	$270 00	$310 50	18	10	16	700	$580 50
" June 7th.	355	290	270 00	263 25	18	10	16	645	533 25
" " 14th.	351	273	270 00	279 00	18	10	15	624	549 00
" " 21st..	351	240	270 00	246 75	18	10	16	591	516 75
" " 28th.	347	320	267 00	323 25	18	10	16	667	590 25
	1764	1463	$1347 00	$1422 75	90	50	79	3227	$2769 75
Week ending July 5th.	312	324	$273 00	$291 00	18	9	14	636	$564 00
" " 12th.	309	279	324 00	291 00	18	9	14	588	615 00
" " 19th.	325	324	324 00	297 75	18	9	15	649	621 75
" " 26th.	332	576	324 00	306 75	18	9	15	908	630 75
	1278	1503	$1245 00	$1186 50	72	36	58	2781	$2431 50
Week ending August 2d.	351	432	$324 00	$302 25	18	9	16	783	$626 25
" " 9th	404	359	324 00	275 25	18	9	15	763	599 25
" " 16th	438	333	324 00	265 75	18	9	16	771	589 75
" " 23d.	467	405	324 00	240 00	18	8	14	872	564 00
" " 30th	484	256	324 00	248 25	18	8	16	740	572 25
	2144	1785	$1620 00	$1331 50	90	43	77	3929	$2951 50

TABLE A—Continued.

SECOND DISTRICT JOSEPH P. SCOTT, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures
Week ending Sept. 6th..	445	272	$324 00	$242 25	18	9	16	717	$566 25
" " 13th..	404	264	324 00	189 75	18	9	15	668	513 75
" " 20th..	356	278	324 00	244 50	18	9	15	634	568 50
" " 27th..	346	333	315 00	261 00	18	9	15	679	576 00
	1551	1147	$1287 00	$937 50	72	36	61	2698	$2224 50
Week ending Oct. 4th...	333	378	$324 00	$282 75	18	9	15	711	$606 75
" " 11th...	316	469	270 00	322 50	18	9	16	785	592 50
" " 18th...	291	368	270 00	277 50	18	9	16	659	547 50
" " 25th...	342	360	270 00	249 00	18	9	15	702	519 00
	1282	1575	$1134 00	$1131 75	72	36	62	2857	$2265 75

Week ending Nov. 1st..	342	175	$270 00	$147 75	18	9	15	517	$417 75
" " 8th.	345	347	270 00	263 25	18	9	15	692	533 25
" " 15th.	365	339	267 00	259 50	18	9	15	704	526 50
" " 22d..	403	286	270 00	259 50	18	9	16	689	529 50
" " 29th.	387	304	271 50	238 50	18	9	15	691	510 00
	1842	1451	$1348 50	$1168 50	90	45	76	3293	$2517 00
Week ending Dec. 6th...	423	432	$270 00	$218 25	18	9	16	855	$488 25
" " 13th...	423	332	270 00	204 75	18	9	15	755	474 75
" " 20th...	445	246	270 00	219 75	18	9	15	691	489 75
" " 27th...	358	815	270 00	289 50	18	9	17	1173	559 50
	1649	1825	$1080 00	$932 25	72	36	63	3474	$2012 25

JAMES F. McSHANE, M.D., *Assistant Commissioner of Health.*

TABLE A—Continued.

THIRD DISTRICT. MICHAEL FADGEN, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed.	Total amount of Expenditures.
Week ending Jan'y 7th.	575	484	$270 00	$335 25	18	12	21	1059	$605 25
" " 14th.	577	536	270 00	331 50	18	12	23	1113	601 50
" " 21st..	582	540	270 00	354 00	18	12	22	1122	624 00
" " 28th.	564	640	270 00	361 50	18	12	27	1204	631 50
	2298	2200	$1080 00	$1382 25	72	48	93	4498	$2462 25
Week ending Feb'y 4th.	574	592	$270 00	$369 00	18	14	28	1166	$639 00
" " 11th.	608	590	324 00	337 50	18	9	21	1198	661 50
" " 18th.	608	456	324 00	274 50	18	9	14	1064	598 50
" " 25th	607	460	324 00	299 25	18	10	26	1067	623 25
	2397	2098	$1242 00	$1280 25	72	42	89	4495	$2522 25

Week ending March 3d.	612	511	$324 00	$313 50	18	10	16	1123	$637 50
" " 10th	615	477	324 00	301 50	18	10	16	1092	625 50
" " 17th	636	558	342 00	279 00	19	11	16	1194	621 00
" " 24th	665	484	342 00	258 00	19	12	20	1149	600 00
" " 31st.	657	592	342 00	381 00	19	12	24	1249	723 00
	3185	2622	$1674 00	$1533 00	93	55	92	5807	$3207 00
Week ending April 7th.	668	670	$342 00	$447 00	19	12	31	1338	$789 00
" " 14th.	667	630	342 00	352 50	19	12	17	1297	694 50
" " 21st..	673	608	342 00	450 00	19	12	26	1281	792 00
" " 28th.	692	601	342 00	369 00	19	13	23	1293	711 00
	2700	2509	$1368 00	$1618 50	76	49	97	5209	$2986 50
Week ending May 5th..	658	668	$342 00	$393 00	19	13	24	1326	$735 00
" " 12th..	616	514	285 00	306 00	19	10	15	1130	591 00
" " 19th..	629	540	285 00	315 00	19	10	15	1169	600 00
" " 26th..	634	571	285 00	328 50	19	11	17	1205	613 50
	2537	2293	$1197 00	$1342 50	76	44	71	4830	$2539 50

TABLE A—Continued.

THIRD DISTRICT. MICHAEL FADGEN, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed.	Total amount of Expenditures.
Week ending June 2d...	605	544	$288 00	$345 00	19	11	18	1149	$633 00
" " 9th.	609	600	285 00	362 25	19	12	19	1209	647 25
" " 16th.	589	642	285 00	356 25	19	12	18	1231	641 25
" " 23d...	598	470	285 00	321 00	19	12	22	1068	606 00
" " 30th.	598	554	288 00	358 50	19	12	21	1152	646 50
	2999	2810	$1431 00	$1743 00	95	59	98	5809	$3174 00
Week ending July 7th.	553	856	$285 00	$399 00	19	13	22	1409	$684 00
" " 14th.	646	586	342 00	306 00	19	11	21	1232	648 00
" " 21st..	653	620	342 00	306 00	20	10	18	1273	648 00
" " 28th.	616	600	342 00	303 00	19	10	18	1216	645 00
	2468	2662	$1311 00	$1314 00	77	44	79	5130	$2625 00

Week ending August 4th	640	520	$342 00	$307 50	19	10	18	1160	$649 50
" " 11th	642	628	342 00	315 00	19	10	21	1270	657 00
" " 18th	657	630	342 00	317 25	19	10	20	1287	659 25
" " 25th	671	715	342 00	328 50	19	11	18	1386	670 50
	2610	2493	$1368 00	$1268 25	76	41	77	5103	$2636 25
Week ending Sept. 1st..	655	740	$342 00	$306 00	19	10	20	1395	$648 00
" " 8th..	661	776	342 00	306 00	19	11	21	1437	648 00
" " 15th..	684	260	342 00	261 00	19	10	21	944	603 00
" " 22d ...	648	554	342 00	243 00	19	9	17	1202	585 00
" " 29th..	647	540	342 00	228 00	19	9	15	1187	570 00
	3295	2870	$1710 00	$1344 00	95	49	94	6165	$3054 00
Week ending Oct. 6th...	643	588	$342 00	$333 75	19	10	20	1231	$675 75
" " 13th...	636	690	285 00	378 00	19	10	22	1326	663 00
" " 20th...	640	598	285 00	378 00	19	11	22	1238	663 00
" " 27th...	682	620	288 00	345 00	19	11	20	1302	633 00
	2601	2496	$1200 00	$1434 75	76	42	84	5097	$2634 75

TABLE A—Continued.

THIRD DISTRICT. MICHAEL FADGEN, Sup't	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
Week ending Nov. 3d....	665	462	$294 00	$305 25	19	11	24	1127	$599 25
" " 10th..	620	655	291 00	354 00	19	11	22	1275	645 00
" " 17th..	648	625	291 00	373 50	19	11	21	1273	664 50
" " 24th..	657	796	285 00	361 50	19	12	23	1453	646 50
	2590	2538	$1161 00	$1394 25	76	45	90	5128	$2555 25
Week ending Dec. 1st...	609	592	$285 00	$285 75	19	10	17	1201	$570 75
" " 8th..	615	562	285 00	247 50	19	10	16	1177	532 50
" " 15th..	605	427	285 00	243 00	19	10	18	1032	528 00
" " 22d...	612	627	285 00	256 50	19	10	17	1239	541 50
" " 29th..	656	800	342 00	310 50	20	10	19	1456	652 50
	3097	3008	$1482 00	$1343 25	96	50	87	6105	$2825 25

JAMES F. McSHANE, M.D., *Assistant Commissioner of Health.*

FOURTH DISTRICT.

LOUIS KROEGER, Sup't.

Week ending Jan'y 8th.	569	321	$300 00	$274 50	20	9	22	890	$574 50
" " 15th.	541	554	300 00	338 25	20	9	20	1095	638 25
" " 22d..	544	590	300 00	305 25	20	9	21	1134	605 25
" " 29th.	545	393	300 00	267 00	20	9	20	938	567 00
	2199	1858	$1200 00	$1185 00	80	36	83	4057	$2385 00
Week ending Feb'y 5th.	526	359	$300 00	$283 88	20	9	24	885	$583 88
" " 12th.	544	580	360 00	299 25	20	9	24	1124	659 25
" " 19th.	536	331	360 00	275 25	20	9	24	867	635 25
" " 26th.	549	404	360 00	319 38	20	9	21	953	679 38
	2155	1674	$1380 00	$1177 76	80	36	93	3829	$2557 76
Week ending March 4th	539	436	$360 00	$352 50	20	9	21	975	$712 50
" " 11th	528	291	360 00	238 50	20	9	21	819	598 50
" " 18th	539	351	360 00	283 88	20	9	20	890	643 88
" " 25th	566	374	378 00	308 33	21	9	20	940	686 33
	2172	1452	$1458 00	$1183 21	81	36	82	3624	$2641 21

TABLE A—Continued.

FOURTH DISTRICT. LOUIS KROEGER, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed	Cost of Removal of Garbage	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed.	Total amount of Expenditures.
Week ending April 1st..	563	359	$378 00	$286 50	21	9	20	922	$664 50
" " 8th.	540	418	378 00	342 00	21	9	22	958	720 00
" " 15th.	547	526	378 00	352 50	21	9	21	1073	730 50
" " 22d...	531	539	378 00	354 00	21	9	21	1070	732 00
" " 29th.	517	411	378 00	339 00	21	9	21	928	717 00
	2698	2253	$1890 00	$1674 00	105	45	105	4951	$3564 00
Week ending May 6th..	487	415	$378 00	$334 50	21	9	21	902	$712 50
" " 13th..	470	562	315 00	345 00	21	9	21	1032	660 00
" " 20th..	439	507	315 00	346 50	21	9	20	946	661 50
" " 27th..	456	505	315 00	357 17	21	9	21	961	672 17
	1852	1989	$1323 00	$1383 17	84	36	83	3841	$2706 17

Week ending June 3d	433	665	$315 00	$382 88	21	9	21	1098	$697 88
" " 10th...	407	434	315 00	350 25	21	9	21	841	665 25
" " 17th...	397	395	315 00	310 00	21	9	21	792	625 00
" " 24th...	370	436	315 00	346 13	21	9	21	806	661 13
	1607	1930	$1260 00	$1389 26	84	36	84	3537	$2649 26
Week ending July 1st..	365	437	$315 00	$353 25	21	9	21	802	$668 25
" " 8th..	374	443	378 00	356 25	21	9	22	817	734 25
" " 15th..	386	421	378 00	352 50	21	9	21	807	730 50
" " 22d ...	384	427	378 00	342 75	21	9	21	811	720 75
" " 29th..	409	462	378 00	340 50	21	9	22	871	718 50
	1918	2190	$1827 00	$1745 25	105	45	107	4108	$3572 25
Week ending August 5th	455	477	$378 00	$352 50	21	9	21	932	$730 50
" " 12th	490	418	381 00	324 75	22	9	21	908	705 75
" " 19th	500	429	396 00	351 75	22	9	21	929	747 75
" " 26th	529	431	396 00	344 25	22	9	21	960	740 25
	1974	1755	$1551 00	$1373 25	89	36	84	3729	$2924 25

TABLE A—Continued.

FOURTH DISTRICT. LOUIS KROEGER, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
Week ending Sept. 2d..	524	402	$396 00	$328 50	22	9	21	926	$724 50
" " 9th..	497	427	396 00	339 25	22	9	21	924	735 25
" " 16th..	469	459	396 00	327 75	22	9	21	928	723 75
" " 23d ..	462	470	396 00	357 00	22	9	21	932	753 00
" " 30th..	449	442	396 00	349 50	22	9	21	891	745 50
	2401	2200	$1980 00	$1702 00	110	45	105	4601	$3682 00
Week ending Oct. 6th...	482	421	$396 00	$365 25	22	9	21	903	$761 25
" " 13th...	419	419	330 00	363 00	22	9	22	838	693 00
" " 20th...	436	428	330 00	349 00	22	9	21	864	679 00
" " 27th...	468	528	330 00	354 00	22	9	21	996	684 00
	1805	1796	$1386 00	$1431 25	88	36	85	3601	$2817 25

Week ending Nov. 4th..	438	399	$330 00	$327 00	22	9	21	837	$657 00
" " 11th..	495	463	330 00	339 25	22	9	21	958	669 25
" " 18th..	492	438	330 00	349 50	22	9	21	930	679 50
" " 25th..	517	343	330 00	284 25	22	9	22	860	614 25
	1942	1643	$1320 00	$1300 00	88	36	85	3585	$2620 00
Week ending Dec. 2d ...	525	333	$330 00	$307 50	22	9	23	858	$637 50
" " 9th..	564	369	330 00	290 25	22	9	22	933	620 25
" " 16th..	571	357	330 00	280 50	22	9	22	928	610 50
" " 23d ...	577	464	396 00	356 30	22	9	22	1041	752 30
" " 30th..	595	474	330 00	360 00	22	12	23	1069	690 00
	2832	1997	$1716 00	$1594 55	110	48	112	4829	$3310 55

JAMES F. McSHANE, M.D., *Assistant Commissioner of Health.*

TABLE A—Continued.

FIFTH DISTRICT. JOHN MEAGHER, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed	Total Amount of Expenditures
Week ending Jan'y 2d.	845	396	$405 00	$226 50	27	12	22	1241	$631 50
" " 9th	852	652	405 00	298 50	27	12	22	1504	703 50
" " 16th	849	633	405 00	363 75	27	12	23	1482	768 75
" " 23d.	855	778	405 00	332 25	27	12	21	1633	737 25
" " 30th	843	557	405 00	273 75	27	12	23	1400	678 75
	4244	3016	$2025 00	$1494 75	135	60	111	7260	$3519 75
Week ending Feb'y 6th	860	764	$486 00	$337 50	27	12	27	1624	$823 50
" " 13th	837	449	486 00	222 00	27	12	21	1286	708 00
" " 20th	857	806	486 00	327 75	27	12	22	1663	813 75
" " 27th	856	660	486 00	325 50	27	12	22	1516	811 50
	3410	2679	$1944 00	$1212 75	108	48	92	6089	$3156 75

Week ending March 5th	844	706	$486 00	$352 50	27	12	22	1550	$838 50
" " 12th	836	466	486 00	223 50	27	12	22	1302	709 50
" " 19th	867	419	486 00	240 75	27	12	22	1286	726 75
" " 26th	850	709	486 00	327 00	27	12	24	1559	813 00
	3397	2300	$1944 00	$1143 75	108	48	90	5697	$3087 75
Week ending April 2d..	868	754	$486 00	$321 75	27	13	25	1622	$807 75
" " 9th.	823	912	486 00	390 75	27	12	23	1735	876 75
" " 16th.	794	964	486 00	406 50	27	13	24	1758	892 50
" " 23d..	734	994	486 00	372 00	27	14	24	1728	858 00
" " 30th.	682	926	486 00	401 25	27	14	24	1608	887 25
	3901	4550	$2430 00	$1892 25	135	66	120	8451	$4322 25
Week ending May 7th.	704	949	$486 00	$389 25	27	14	25	1653	$875 25
" " 14th.	683	819	405 00	377 25	27	14	25	1502	782 25
" " 21st..	659	798	405 00	369 00	27	13	25	1457	774 00
" " 28th.	637	1067	405 00	368 25	27	13	24	1704	773 25
	2683	3633	$1701 00	$1503 75	108	54	99	6316	$3204 75

TABLE A—Continued.

FIFTH DISTRICT. JOHN MEAGHER, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed.	Total amount of Expenditures.
Week ending June 4th.	631	880	$405 00	$383 25	27	13	23	1511	$788 25
" " 11th.	601	867	405 00	385 50	27	13	24	1468	790 50
" " 18th.	600	850	405 00	308 25	27	13	23	1450	713 25
" " 25th.	586	819	405 00	375 00	27	13	25	1405	780 00
	2418	3416	$1620 00	$1452 00	108	52	95	5834	$3072 00
Week ending July 2d...	487	632	$405 00	$375 00	27	14	21	1119	$780 00
" " 9th.	577	811	486 00	376 50	27	14	23	1388	862 50
" " 16th.	593	813	486 00	370 50	27	14	22	1406	856 50
" " 23d...	597	1211	486 00	445 50	28	14	24	1808	931 50
" " 30th.	602	1301	486 00	372 00	27	14	24	1903	858 00
	2856	4768	$2349 00	$1939 50	136	70	114	7624	$4288 50

Week ending August 6th	624	875	$486 00	$389 25	27	14	24	1499	$875 25
" " 13th	667	957	486 00	378 75	27	13	21	1624	864 75
" " 20th	691	1020	486 00	388 50	27	14	24	1711	874 50
" " 27th	719	813	486 00	360 00	27	14	24	1532	846 00
	2701	3665	$1944 00	$1516 50	108	55	93	6366	$3460 50
Week ending Sept. 3d ...	730	972	$486 00	$359 25	27	14	23	1702	$845 25
" " 10th..	742	1057	486 00	384 00	27	14	22	1799	870 00
" " 17th..	693	892	486 00	350 25	27	14	22	1585	836 25
" " 24th..	687	915	486 00	377 25	27	13	22	1602	863 25
	2852	3836	$1944 00	$1470 75	108	55	89	6688	$3414 75
Week ending Oct. 1st..	636	928	$486 00	$363 75	27	13	23	1564	$849 75
" " 8th..	669	1071	486 00	420 00	27	13	22	1740	906 00
" " 15th..	642	1222	405 00	436 50	27	13	23	1864	841 50
" " 22d ...	633	1014	405 00	385 50	27	13	22	1647	790 50
" " 29th..	640	997	405 00	353 25	27	13	22	1637	758 25
	3220	5232	$2187 00	$1959 00	135	65	112	8452	$4146 00

TABLE A—Concluded.

FIFTH DISTRICT. JOHN MEAGHER, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed	Total amount of Loads Removed.	Total amount of Expenditures
Week ending Nov. 5th.	701	691	$405 00	$300 75	27	13	22	1392	$705 75
" " 12th.	732	875	405 00	372 00	27	13	22	1607	777 00
" " 19th.	756	977	405 00	376 50	27	13	24	1733	781 50
" " 26th.	790	755	405 00	303 00	27	13	22	1545	708 00
	2979	3298	$1620 00	$1352 25	108	52	90	6277	$2972 25
Week ending Dec. 3d....	891	839	$405 00	$310 50	27	13	21	1730	$715 50
" " 10th..	873	856	405 00	282 00	27	13	22	1729	687 00
" " 17th..	904	866	405 00	291 00	27	13	20	1770	696 00
" " 24th..	861	1117	486 00	396 00	27	13	24	1978	882 00
" " 31st...	946	1432	405 00	480 75	27	19	34	2378	885 75
	4475	5110	$2106 00	$1760 25	135	71	121	9585	$3866 25

JAMES F. McSHANE, M.D., *Assistant Commissioner of Health.*

TABLE B.

Monthly Report of work done in the Street and Garbage Department in the various Districts, from January 1st, 1880, to December 31st, 1880, inclusive; showing the amount of money expended in each District, and average number of men and carts employed by each Superintendent.

FIRST DISTRICT. B. V. KELLY, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
January	2099	2475	$900 00	$1330 50	15	11	21	4574	$2230 50
February	2069	5063	1035 00	1768 50	15	14	31	7132	2803 50
March	2768	4416	1386 00	2204 95	15	13	28	7184	3590 95
April	2252	3483	1152 00	1944 00	16	13	30	5735	3096 00
May	2852	4654	1248 00	2295 75	16	15	33	7506	3543 75
June	2071	4205	960 00	1752 00	16	15	29	6276	2712 00
July	1994	4333	1104 00	1463 25	16	12	22	6327	2567 25

August	2654	3580	1440 00	1564 50	16	9	21	6234	3004 50
September	2066	2530	1152 00	1122 75	16	9	21	4596	2274 95
October	1898	4287	1008 00	1512 75	16	11	22	6185	2520 75
November	2659	3716	1200 00	1669 50	16	11	23	6375	2869 50
December	2056	2911	1008 00	1204 75	16	10	23	4967	2212 75
	27,438	45,653	$13,593 00	$19,833 20				73,091	$33,426 20

Expenditures for dumps	$694 20	
" " tools and incidentals	420 01$\frac{1}{5}$	
		1,114 21$\frac{1}{5}$
		$34,540 41$\frac{1}{5}$

JAMES F. McSHANE, M.D., *Assistant Commissioner of Health.*

TABLE B—Continued.

SECOND DISTRICT.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total amount of Loads Removed.	Total amount of Expenditures.
THOS. KERNAN, Sup't.									
January	1613	1167	1080 00	1148 25	18	12	23	2780	2228 25
February	1610	1787	1242 00	1290 00	18	13	27	3397	2532 00
JOSEPH P. SCOTT, Sup't.									
March	2275	1292	1620 00	1255 95	18	9	15	3567	2875 95
April	1894	1449	1296 00	1222 50	18	9	16	3343	2518 50
May	1677	1156	1134 00	1158 00	18	9	16	2833	2292 00

June	1764	1463	1347 00	1422 75	18	10	16	3227	2769 75
July	1278	1503	1245 00	1186 50	18	9	15	2781	2431 50
August	2144	1785	1620 00	1331 50	18	9	15	3929	2951 50
September	1551	1147	1287 00	937 50	18	9	15	2698	2224 50
October	1282	1575	1134 00	1131 75	18	9	15	2857	2265 75
November	1842	1451	1348 50	1168 50	18	9	15	3293	2517 00
December	1649	1825	1080 00	932 25	18	9	16	3474	2012 25
	20,579	17,600	$15,433 50	$14,185 45				38,179	$29,618 95

Expenditures for dumps	$694 20	
" " tools and incidentals	420 01⅕	
		1,114 21⅕
		$30,733 16⅕

JAMES F. McSHANE, M.D., *Assistant Commissioner of Health.*

TABLE B—Continued.

THIRD DISTRICT. MICHAEL FADGEN, Sup't	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
January	2298	2200	$1080 00	$1382 25	18	12	23	4498	$2462 25
February	2397	2098	1242 00	1280 25	18	11	22	4495	2522 25
March	3185	2622	1674 00	1533 00	19	11	18	5807	3207 00
April	2700	2509	1368 00	1618 50	19	12	24	5209	2986 50
May	2537	2293	1197 00	1342 50	19	11	18	4830	2539 50
June	2999	2810	1431 00	1743 00	19	12	19	5809	3174 00
July	2468	2662	1311 00	1314 00	19	11	19	5130	2625 00

August	2610	2493	1368 00	1268 25	19	11	19	5103	2636 25
September	3295	2870	1710 00	1344 00	19	10	19	6165	3054 00
October	2601	2496	1200 00	1434 75	19	10	21	5097	2634 75
November	2590	2538	1161 00	1394 25	19	11	22	5128	2555 25
December	3097	3008	1482 00	1343 25	19	10	17	6105	2825 25
	32,777	30,599	$16,224 00	$16,998 00				63,376	$33,222 00

Expenditures for dumps	$694 20	
" " tools and incidentals	420 01⅕	
		1,114 21⅕
		$34,336 21⅕

JAMES F. McSHANE, M.D., *Assistant Commissioner of Health.*

TABLE B—Continued.

FOURTH DISTRICT. LOUIS KROEGER, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed.	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
January	2199	1858	$1200 00	$1185 00	20	9	21	4057	$2385 00
February	2155	1674	1330 00	1177 76	20	9	23	3829	2557 76
March	2172	1452	1458 00	1183 21	20	9	20	3624	2641 21
April	2698	2253	1890 00	1674 00	21	8	21	4951	3564 00
May	1852	1989	1323 00	1383 17	21	9	21	3841	2706 17
June	1607	1930	1260 00	1389 26	21	9	21	3537	2649 26
July	1918	2190	1827 00	1745 25	21	8	21	4108	3572 25

August	1974	1755	1551 00	1373 25	22	9	21	3729	2924 25
September	2401	2200	1980 00	1702 00	22	9	21	4601	3682 00
October	1805	1796	1386 00	1431 25	22	9	21	3601	2817 25
November	1942	1643	1320 00	1300 00	22	9	21	3585	2620 00
December	2832	1997	1716 00	1594 55	22	10	22	4829	3310 55
	25,555	22,737	$18,291 00	$17,138 70				48,292	$35,429 70

Expenditures for dumps	$694 20	
" " tools and incidentals	420 01⅕	
		1,114 21⅕
		$36,543 91⅕

JAMES F. McSHANE, M.D., *Assistant Commissioner of Health.*

TABLE B—Concluded.

FIFTH DISTRICT. JOHN MEAGHER, Sup't.	Garbage and Ashes Removed.	Street Dirt, Sand, &c., Removed.	Cost of Removal of Garbage.	Cost of Removal of Street Dirt, Sand, &c.	Number of Garbage Carts Employed.	Number of Street Carts Employed	No. of Scrapers and Sweepers Employed.	Total Amount of Loads Removed.	Total Amount of Expenditures.
January	4244	3016	$2025 00	$1494 75	27	12	22	7260	$3519 75
February	3410	2679	1944 00	1212 75	27	12	23	6089	3156 75
March	3397	2300	1944 00	1143 75	27	12	23	5697	3087 75
April	3901	4550	2430 00	1892 25	27	13	24	8451	4322 25
May	2683	3633	1701 00	1503 75	27	13	25	6316	3204 75
June	2418	3416	1620 00	1452 00	27	13	24	5834	3072 00
July	2856	4768	2349 00	1939 50	27	14	23	7624	4288 50

August	2701	3665	1944 00	1516 50	27	14	23	6366	3460 50
September	2852	3836	1944 00	1470 75	27	14	22	6688	3414 75
October	3220	5232	2187 00	1959 00	27	13	23	8452	4146 00
November	2979	3298	1620 00	1352 25	27	13	22	6277	2972 25
December	4475	5110	2106 00	1760 25	27	14	24	9585	3866 25
	39,136	45,503	$23,814 00	$18,697 50				84,639	$42,511 50

Expenditures for dumps	$694 20	
" " tools and incidentals	420 01⅕	
		1,114 21⅕
		$43,625 71⅕

JAMES F. McSHANE, M. D., *Assistant Commissioner of Health.*

TABLE C.

Table showing amount of Garbage delivered to Contractors at Canton.

MONTHS.	CANTON DUMP.	GARBAGE.	MARKETS.	TOTAL.
January	J. Holdefer, Sup't....	397½	166	563½
February	" "	292¼	119	411¼
March	" "	307¾	118	425¾
April	" "	371¾	111	482¾
May	" "	785¼	152	937¼
June	" "	738¾	157	895¾
July	" "	1,239	197	1,436
August	" "	1,849	191	2,040
September	" "	1,428¼	169	1,597¼
October	" "	980½	156	1,136½
November	" "	604	99	703
December	" "	429½	81	510½
		9,423½	1,716	11,139½

TABLE C—Concluded.

Table showing amount of Garbage delivered to Contractors at Spring Garden.

MONTHS.	SPRING GARDEN DUMP.		GARBAGE.	MARKETS.	TOTAL.
January	E. Pumphrey,	Sup't.	595¾	38	633¾
February	"	"	426¾	27	453¾
March	"	"	454¾	34¼	489
April	"	"	557¾	42	599¾
May	"	"	1,210¼	94	1,304¼
June	"	"	1,081½	111	1,192½
July	"	"	1,836¾	131	1,967¾
August	"	"	2,677¾	150	2,827¾
September	"	"	2,264½	187	2,451½
October	"	"	1,605½	163	1,768½
November	"	"	782½	95	877½
December	"	"	501½	45	546½
			13,995¼	1117¼	15,112½

Total number of loads delivered at Canton and Spring Garden dumps, 26,252; amount of money paid contractors for removal of animal and vegetable garbage, $13,500; cost per load, 51½ cents.

JAMES F. McSHANE, M.D.,
Assistant Commissioner of Health.

TABLE D.

Number of Nuisances examined and abated by Sanitary Inspectors (1880).

Alleys graded, paved and repaired	320
Premises cleaned and disinfected	246
Cellars cleaned and connected with sewers	803
Floors of houses, privies and stables repaired or relaid	49
Vacant lots drained or filled up	159
Manure pits reconstructed or repaired	93
Privies reconstructed and repaired	862
Ponds drained or filled	21
Drain pipes constructed and repaired	138
Yards cleaned, drained, paved and repaired	228
Ice ponds inspected and permits granted	28
" " " refused	5
Causes of death investigated, (no physician in attendance)	315
Complaints examined and no nuisance found to exist	143
Notices served on wood and coal dealers	339
Gas and water pipes repaired	8
Gutters repaired and repaved	8
Amount carried forward	3765

TABLE D—Concluded.

Amount brought forward	3765
Water obtained from city pumps for analysis (samples)	10
Slaughter and packing houses inspected	33
Number of cases of infectious diseases examined	73
Old pump stocks removed	1
Rain spouts repaired	20
Grass removed from gutters	20
Buildings reconstructed	2
Excavating establishments inspected	6
Breweries and distilleries inspected	9
Persons sent to the Marine Hospital	11
Miscellaneous inspections	341
Total	4291

JAMES F. McSHANE, M.D,

Assistant Commissioner of Health.

TABLE E.

Notices, Orders, &c., issued from the Health Department, and number of Official Letters Written and Received, during the year 1880.

Number of notices issued to clean privies on complaint	17,445
Number of notices issued to repair yards	530
Number of notices issued to clean and bail out cellars	560
Number of notices issued to grade and pave alleys	4,863
Number of notices issued to drain and fill up lots	287
Number of noties issued to clean and repair water closets	520
Number of notices issued to clean, drain and repair premises	380
Number of notices issued to clean and properly construct manure pits	140
Number of notices issued to clean grass and weeds from lots and gutters	560
Total number of notices issued	25,285
Number of permits issued to open sinks	18,887
" " " " at night.	58
" official letters written	1,464
" " received	636

TABLE F.

Number of Interments in the Eastern and Western Public Cemeteries, during the year 1880.

EASTERN PUBLIC CEMETERY. P. MULLEN, Sup't.		WESTERN PUBLIC CEMETERY. F. A. KERCHNER, Sup't.	
January	13	January	11
February	10	February	14
March	9	March	23
April	12	April	20
May	12	May	21
June	14	June	36
July	14	July	20
August	16	August	8
September	14	September	20
October	13	October	12
November	16	November	8
December	19	December	12
	162		205
			162
Total number of interments during the year 1880...			367

JAMES F McSHANE, M.D.,
Assistant Commissioner of Health.

REPORT

OF THE

RESIDENT PHYSICIAN

AT THE

MARINE HOSPITAL.

REPORT.

MARINE HOSPITAL—QUARANTINE STATION,

PORT OF BALTIMORE, December 31st, 1880.

To the Honorable the Mayor

and City Council of Baltimore:

GENTLEMEN:

I have the honor to submit the report of the Quarantine Station, and of the Marine Hospital, for the year ending December 31st, 1880.

As has been explained in my previous reports, this place is not, properly speaking, a *Marine Hospital.* It is the Quarantine Inspecting Station of the Port, and its hospital accommodations are only for cases of Smallpox, Yellow Fever, and such contagious diseases as are taken from vessels on arrival, or sent from the city, when discovered there. The Marine Hospital Service of the Port is under the control of a United States official; and at the present time, sick sailors are treated at St. Joseph's Hospital, in the city. I therefore respectfully suggest that some other name be used to

designate this place, as confusion and difficulties are constantly arising from the misnomer. And I again call attention to the fact that the establishment of the Quarantine Inspecting Station and the City Pest Hospital at one and the same place, was a mistake, and the association is fraught with danger. I renew the recommendation I have made in previous reports, that this place be reserved *exclusively* for use as a Pest Hospital, and that the ground bought by the city for the purpose, at Leading Point, be improved and utilized as the Quarantine Inspecting Station.

During the sessions of the late City Council, an appropriation of five thousand dollars ($5,000) was made for the purpose of building a wharf and improving the grounds at the Leading Point property, so that it could be used as our Boarding and Inspecting Station; but, owing to the fact that the appropriations by the Council for the year had exceeded the amount of the tax levy, the Mayor was compelled to withhold his signature from the bill, and it did not become a law. Owing to the increased commerce of the port, it has become, now, a matter of imperative necessity, for the proper execution of quarantine inspection, and the disposition of vessels arriving from infected ports, that some point further down the river should be prepared for our Boarding Station. I therefore earnestly recommend that an appropriation be at once made, so that a wharf and suitable buildings can be erected in time for occupancy before the approaching quarantine season. I think that an appropriation of ten thousand dollars ($10,000), if wisely expended, will be sufficient

to make the necessary improvements. Another reason for the removal of the Quarantine Station from its present location, is in the unhealthfulness of this place during the summer months. Every one employed here during the past year, with but a single exception, suffered from one or more attacks of Malarial Fever.

During the year 1,070 vessels have been boarded and inspected on their arrival at port. The details are fully shown in the accompanying tables.

Table I shows the number and class of vessels examined. It will be seen, that 272 steamships, from foreign ports—bringing passengers—or from United States ports south of the Chesapeake, were boarded—a larger number than for any other year in the history of the city.

Table II shows the amounts of money, collected as quarantine fees and paid into the city treasury, from the several classes of vessels, the total being $9,167.82.

Table III exhibits the number and class of vessels detained at quarantine, either from having cases of sickness on board, or for purposes of cleaning, disinfection, etc.—they amounted to but 23.

Table IV shows the number of patients treated at the hospital, and of those who, having been in communication with contagious diseases, were detained as a precautionary measure. The total number of persons in hospital during the year was 40, of which 15 were cases of Small-pox, and only one of Yellow fever—the smallest number, from the latter disease, of any year since my residence here.

The cost of maintaining the Quarantine Station and the hospital during the year, including salaries, was $14,994.69, as more fully shown in Table No. VII of the Health Commissioners' report.

I would again call attention to the fact that the annual appropriation for the support of the station—$15,000—barely suffices to maintain it in a condition of efficiency, and that nothing remains for improvements to the grounds or buildings, so much needed. I think an appropriation of five thousand dollars ($5,000), to place the hospital buildings and grounds in decent repair, would be judicious and ultimately economical.

To Dr. Wm. T. Councilman, my assistant during the quarantine season, I am indebted for the most cordial and effective assistance.

Capt. John L. Gibson, in charge of the boarding boat, and all of the employees, were most efficient and faithful in the discharge of their respective duties.

Very respectfully,

Your obedient servant,

E. LLOYD HOWARD, M. D.,

Marine Hospital Physician.

TABLES.

TABLE I.

Showing the Number and Class of Vessels Boarded and Inspected at the Quarantine Station, for the year ending December 31st, 1880.

Months.	CLASS OF VESSELS.					
	Steamships.	Ships.	Brigs.	Barks.	Schooners.	Total.
January	7	.....	.....	.....	.....	7
February	6	.....	.....	.....	.....	6
March	9	.....	.....	.....	.....	9
April	12	.....	4	3	.....	19
May	37	7	13	72	38	167
June	29	8	9	78	54	178
July	48	9	8	71	24	160
August	54	10	13	92	33	202
September	30	12	16	79	23	160
October	32	9	14	70	26	151
November	5	.....	.....	.....	.....	5
December	3	.....	2	1	.....	6
Total	272	55	79	466	198	1,070

TABLE II.

Showing the Amount of Money Received for Quarantine Fees, and Paid to the City Register, for the year ending December 31st, 1880.

Months.	CLASS OF VESSELS.					
	Steam-ships.	Ships.	Brigs.	Barks.	Schooners.	Total.
January	$215 63	.....	.....	.....	.....	$215 63
February	187 30	.....	.....	.....	.....	187 30
March	263 00	.....	.....	.....	.....	263 00
April	238 89	.....	.....	.....	.....	238 89
May	620 46	$74 49	$46 85	$432 64	$96 12	1,270 56
June	468 33	103 94	24 16	472 94	149 48	1,218 85
July	791 27	99 46	23 48	438 77	68 42	1,421 40
August	915 86	105 78	36 44	564 72	91 49	1,714 29
September	460 36	146 02	50 95	474 15	63 82	1,195 30
October	536 02	95 31	40 24	439 72	78 70	1,189 99
November	127 61	.....	.....	.....	*30 00	157 61
December	88 36	.....	4 14	2 50	.....	95 00
Total	$4,913 09	$625 00	$226 26	$2,825 44	$578 03	$9,167 82

*Add to Schooners, Hospital dues, three Sick Seamen.

TABLE III.

Showing the Number and Class of Vessels detained at Quarantine, for Cleansing and Disinfecting, for the year ending December 31st, 1880.

Month.	CLASS OF VESSELS.					
	Steamships.	Ships.	Brigs.	Barks.	Schooners.	Total.
January						
February						
March						
April						
May	1			1		2
June				1		1
July	3		2		1	6
August	5		1	1	1	8
September	4					4
October				1		1
November						
December			1			1
Total	13		4	4	2	23

TABLE IV.

Showing the Number of Patients treated during the year ending December 31st, 1880.

Diseases.	Remaining in Hospital December 31st, 1879.	Received.	Discharged.	Died.
Smallpox	1	14	11	4
Yellow Fever	.....	1	1	.....
Typhoid Fever	.....	4	4	.....
Scarlatina	.....	2	2	.....
Measles	.....	1	1	.....
Quarantined	.....	17	17	.....
Total	1	39	36	4

ANNUAL REPORT

OF THE

HARBOR BOARD,

TO THE

MAYOR AND CITY COUNCIL OF BALTIMORE,

FOR THE

FISCAL YEAR ENDING DECEMBER 31st, 1880.

REPORT.

OFFICE OF THE HARBOR BOARD,

Baltimore, January 1st, 1881.

To the Honorable the Mayor
and City Council of Baltimore:

GENTLEMEN:

The undersigned committee have the honor to submit the following report of work done by the Harbor Board in the year 1880, and the cost of it in its several branches.

Under direction of the Board, there has been

EXCAVATED IN THE YEAR.

From the head of the Basin.....	32,131	cu. yds.
From upper middle ground.....	346,691	"
From Back Basin and Docks.....	44,912	"
From widening and repairing channels	67,757	"
From Middle Branch (Spring Garden).	46,787	"
Total.....	538,478	

This excavation was over areas aggregating 53 acres, with an average depth of cutting of $6\frac{1}{4}$ feet. It cost $16\frac{71}{100}$ cents per cubic yard, including tug-boat expenses, and all salaries, wages and incidentals of the Board's administration.

The work of 1880 has carried the 19 feet depth of water up to the wharf on Light street, from Pratt street south to a point between Camden and Conway streets, leaving the part south of that point to be put in similar condition in 1881. The whole area of the Basin, except this small portion, had previously been made 19 feet deep.

The shoal known as the upper middle ground—the accumulated deposit of centuries—which, when the Board commenced operations, was fully 1800 feet long by 800 feet wide, and having on no part of it more than 10 feet of water, and on much of it 3 feet only, and thus was an impassable bar between the northern and southern side of the harbor, has this year been entirely removed. There is now upon its former site a depth of 19 feet at mean low water. By the removal of this hitherto obstructing bank, there is now 19 feet depth from shore to shore, for a breadth of 500 feet, where narrowest, increasing to 1400 feet at lower end, and for a length of 6600 feet from Light street down to Abram & Boyce's wharves.

In all this great space, the only excavation incomplete is on the south side—a strip 100 feet wide by 1300 feet long, which, until the wharf improvements now projected there, had not been needed.

The removal of the upper middle ground shoal has been a leading aim of the Board from the time of its organization, and the completion of it in 1880 has made fully 60 per cent. of the work of that year.

The Back Basin has been maintained at a depth of 12 feet and over. The channel on the east side of Fell's Point has been widened in the year 30 feet. The Locust Point channel, from Baltimore and Ohio Railroad Piers Nos. 8 and 9 to the cross-cut channel, has, in the year, been widened to 400 feet. The channel along the Canton shore has been widened 40 feet—making it now 300 feet wide.

In the Middle Branch (Spring Gardens) the deposits from Chatsworth run and Howard street sewers have been removed to a depth of 12 feet at low water, over an area of nearly three acres. The main channel there has been redredged for 1200 feet of its length by 30 feet of its width; and the side channel to the Gas House has been widened 30 feet for 800 feet of its length.

WHARF IMPROVEMENTS IN 1880.

In this year the Board has paved and graded 300 feet in length by 120 feet in breadth of the centre pier at Back Basin; thus not only making a large and valuable wharf, but destroying a bed of filth that has for years been a constant source of danger to the health of the city. The Board has covered the outer end of this pier with 2 inches of asphalt, over an area of 120 feet by 60 feet, as a cleanly and dry floor for the collection of the city street sweepings.

Piles and timbers for foundation of a new stone bulkhead on the north side Back Basin have been put in for a length of 235 feet, to replace the decayed wooden structure.

The Board has rebuilt 700 linear feet of wharf on the three sides of the central pier at Back Basin, for a height of 5 feet, where the former wharf was badly decayed, and 130 linear feet, of 5 feet height, on its north side. At the foot of Commerce street, the platform wharf has been rebuilt up from the piles for an area of 1700 square feet. At the Long Dock, stone and bulkhead has been built for 60 feet of length, 4½ feet high and 5 feet thick. At the foot of Cross street, piles have been driven and caps fitted for 125 feet of length by 22 feet of breadth. This work has been arrested by litigation, and it now awaits the action of the Mayor and City Council. This completes the summary statements of work done by the Harbor Board in the year 1880.

THE HARBOR AS IT NOW IS.

The harbor is now, from Light street wharf down to Abram's wharf, 19 feet in depth at mean low water. The distance between these two points is 6600 feet—the breadth of the harbor here varying from 500 feet to 1400 feet; the only exception in this area being a strip on the south side, where no wharf improvements have been projected until recently; and this strip will be made 19 feet depth in 1881.

Alongside of the 19 feet depth, there is, on the north side of the harbor now, a depth of 22 feet, 300 feet

wide, from the mouth of Jones Falls to the Baltimore and Ohio Railroad wharf, below Thames street, between Caroline and Bond streets. From this point to Wells' wharf, (600 feet,) and on the south side, from Boyce's wharf to Ober's wharf, (1000 feet,) and for the breadth between the north and south shores, (1200 feet,) the harbor is now 22 feet in depth at mean low water. Adjoining this, and further down, the harbor is now 24 feet deep at mean low water, from Wells' wharf on the north side to below Henderson's wharf—a distance of 1500 feet, and across to Ober's wharf—a distance of 1300 feet, including all the intermediate area. On the north shore, from Henderson's wharf to Mallory's wharf, foot of Lancaster street, (1400 feet,) there is a depth of 24 feet, for a width from the wharves of 200 feet. Still keeping on the north side of the harbor, there is a natural channel from Lancaster street down to Bollman's wharf at Canton—a length of 5000 feet, from 18 to 20 feet in depth. To make this channel continuous, the Board some time ago cut off a 10-foot shoal, for 800 feet by 300 feet, previously standing between Stanbery's wharf and Commercial wharf. The survey of the north (or northeastern) side of the harbor ends with a channel from Bollman's wharf to the deep water off Fort McHenry—a length of 3300 feet by breadth of 300 feet. This is 24 feet deep at mean low water.

On the south side of the harbor, from Ober's wharf to Baltimore and Ohio Railroad pier, (2800 feet,) and thence to the United States Government channel below Fort McHenry, (a further distance of 2500 feet,) is our

main ship channel of 24 feet depth at mean low water, and with a breadth of 400 feet. This completes the survey of harbor depths, as they now are from the work of this Board.

In the lower harbor, between the channel on the north side and that on the south side, and from off Mallory's and Henderson's wharves down to Fort McHenry and the Lazaretto, is still a large area, in the main unexcavated as yet, having over it a depth of 19 to 20 feet only. As the present channels are widened from year to year, this will steadily diminish in area. Not only will the excavation be needed in the near future, but it is now manifest that the steadily increasing magnitude of sea-going vessels will compel us, before long, to deepen our present 24 feet channels, so as to make them 26 or 27 feet, to avail of the facilities the United States Government is offering us, by its projected increase in the depth of the channels of approach to our harbor.

WORK FOR 1881.

The work absolutely needed for the year 1881 is—

Excavation of sediment from Middle Branch, (Spring Gardens).....	75,000	cu. yds.
Excavation of sediment from Back Basin and Docks.....	75,000	"
Excavation of sediment in channels...	45,000	"
Excavation of strip on south side of Basin.....	75,000	"
Amount carried forward.....	270,000	"

Amount brought forward.....	270,000	cu. yds.
Excavation of strip off south end of Light street wharf.....	20,000	"
Excavation to widen the main channel at mouth of Harbor.....	150,000	"
	440,000	"

This latter improvement is to make a bolder and freer approach off Fort McHenry; so that inward or outward bound vessels can have ample room in moving from the harbor to the United States Government channel below it, and from that channel to the city.

APPROPRIATIONS NEEDED FOR 1881.

The cost of this excavation for 1881, of 440,000 cubic yards, to cover all expenses, including administration, will be eighty thousand dollars, ($80,000,) and this sum, being the minimum for judicious work, the Board respectfully asks the City Council to appropriate. It is ten thousand dollars ($10,000) less than the appropriation made for 1880.

The other appropriations needed are—

For ice-boat expenses.....	$9,000
For wharf repair.....	3,000
For completing the paving of centre pier, Back Basin.....	3,500
For continuing work on the stone pier, Back Basin.....	5,000
For unexpended balance on stone pier, contracted for, but not yet paid.....	3,611

MAPS ORDERED BY MAYOR AND CITY COUNCIL.

Under authority of the Mayor and City Council, the Board has prepared, with the aid of the City Surveyor, clear and accurate maps on five sheets, showing the relation of wharf property to the Port Warden's line, in places where the linear extent of the latter is less than the shore line of the former; so as to show the equitable distribution among wharf property owners of the lesser front on the Port Warden's line.

ICE-BOAT.

The ice-boat F. C. Latrobe has worked thus far in the winter to the entire satisfaction of the Board, and as an invaluable aid to the commerce of the port. The ice-breaking equipment of Baltimore harbor and its approach is now all that can be desired. This winter, having already been one of remarkable severity, has shown to all that there cannot be ice in our waters capable of resisting the breaking power of our appliances, and that the port in the hardest winter is readily accessible. Early in the winter the Latrobe relieved the steamship Heathersage, that ran aground off the Seven Foot Knoll. Since December 30 she has been steadily engaged in breaking ice; keeping the river and bay channels open; escorting fleets of vessels through the heavy floating ice of the bay, and conveying vessels from and into the harbor. The tugboat Baltimore has rendered valuable auxiliary service in keeping the ice crushed within the harbor, and making

the upper wharves constantly accessible. The Latrobe made twelve trips in the summer for the Free Excursion Society, conveying many thousands of the beneficiaries of this charity to the society grounds.

Respectfully submitted,

JOHN W. McCOY,
WM. H. SKINNER,
Committee.

ENGINEER'S REPORT.

REPORT.

HARBOR BOARD OF BALTIMORE,

ENGINEER'S OFFICE,

Baltimore, January 3, 1881.

To the President and Members

of the Harbor Board of Baltimore

GENTLEMEN:

I have the honor to submit the following report of the operations of this department of the city government for the year ending December 31, 1880.

HARBOR.

Appropriation. The appropriation made for this branch of the service for the year just ended, and applicable principally to the improvement of the depths of water in the harbor, by means of "dredging," amounted to $90,000.

Contracts. The usual advertisements, calling for proposals for removing about 500,000 cubic yards, were issued in April, and contracts were closed on May 13, with the two (2)

lowest bidders, (The American Dredging Company and Mr. Daniel Constantine), as below:

With American Dredging Company:

Contracts.

	Cu. Yards.	Per Yd.
From Upper Middle Ground...	250,000	@ 11⅝c.
Dredged Channels.....	90,000	@ 13½c.
Back Basin and Docks...	70,000	@ 17 c.
Middle Branch.....	50,000	@ 13¾c.

Making a total of 460,000 c. yards, at an average price of $13\frac{64}{100}$c. per cubic yard; and

With Mr. Daniel Constantine:

	Cu. Yards.	Per Yd.
From Head of Basin.....	40,000	@ 30c.

The two contracts combined, amounting to 500,000 cubic yards, at an average price of $14\frac{4}{10}$ cents per cubic yard.

American Dredging Co.'s Work.

The American Dredging Company completed the work assigned them on November 23, having excavated and removed during the season a total of 506,347 cubic yards of sedimentary deposit, for which they were paid at the average rate of $12\frac{53}{100}$ cents per cubic yard.

Daniel Constantine's Work.

Mr. Daniel Constantine completed the work assigned him about December 1, having excavated and removed during the season 32,131 cubic yards, for which he was paid at the rate of 30 cents per cubic yard. It was found

desirable during the progress of the work to increase the allotment of excavation assigned to the Upper Middle Ground, and to diminish, slightly, the allotments for Back Basin and Dredged Channels, thereby assuring the complete removal of the Shoal of the Upper Middle Ground.

Results.

For the particular results of this work, I would refer to the appended tabular statements, which show the location and extent of "cuts" made, depth of water obtained, &c. In general terms it may be stated that the large Shoal opposite the mouth of Jones' Falls, Upper Middle Ground, has been entirely removed to a depth of 19 feet at low water; that this same depth, (19 feet,) excepting a small section north of Conway street, at Head of Basin, extends now from Light Street Wharves to a line joining the foot of Thames street, with Boyce's old wharf, (Locust Point;) that the depth of 22 feet obtains from this line down to a line joining the foot of Bond street with the foot of Hull street, (Locust Point;) and that below this, for an average width of 1,000 feet, the depth of 24 feet at low water exists, connecting with the twenty-four-foot Channel around east side of Fell's Point, and with the Main Ship Channel, (now 400 feet wide,) extending along the west side of Lower Harbor to deep water and the U. S. Government Channels near Fort McHenry. The Channel on east

side of Fell's Point has been widened 30 feet, and is now about 200 feet wide; and the twenty-four-foot Channel from Bollman's wharf to Tyson's wharf, passing the Northern Central Railway Elevators, has been widened 50 feet, and is now 300 feet wide.

Middle Branch.

In the Middle Branch (or Spring Gardens) the deposits from Howard street sewer and Chatsworth Run, have been removed to 12 feet depth over an area of 120,000 square feet between the head of the Channel and the foot of Eutaw and Howard streets. The main Channel was also re-dredged to 12 feet, for 1,200 feet of its length at upper end, and for a width of 30 feet; and the side Channel leading into Gas House and other wharves was widened 30 feet, for a length of about 800 feet.

The areas dredged over during the past season, and average *depths of cutting*, were as follows:

	Square Feet.	Feet Deep.
Head of Basin	180,000	4¾
Upper Middle Ground	1,350,000	7
Channel North Side of Harbor	90,000	3
Channel East Side Fell's Point	65,700	6
East Side Locust Point,	1,350,000	3¾
Spring Gardens	180,000	7
Back Basin	225,000	3¼

The total areas dredged over amounted to 2,333,700 square feet, (or about 53½ acres,) and the average depth of cutting was 6¼ feet.

This past season's work having practically completed the original scheme for the improvement of the Harbor above Locust Point, it may be interesting to note in connection with the sanitary condition of the Basin and Harbor, that one effect of the work of the Board has been to add to the tidal reservoir, between Locust Point and Jones' Falls, about 2,000 millions of gallons of water, and to the Basin proper (from Jones' Falls to Light street) about 81 million gallons; or a total of 2,081 millions of gallons of water added to the principal receptacles of the city sewage, so that if there is any virtue in *water* as an ameliorating agent in such cases, we have certainly improved the sanitary condition of the Harbor and Basin.

Work done.

The total amount of work done by contractors was 538,478 cubic yards, and the total expenditure in round numbers $90,000. The average cost per cubic yard, including all expenses of supervision, administration, maintenance and repair of tug, &c., was $16\frac{71}{100}$ cents per cubic yard, which may be distributed as below:

Cost.

Paid Contractors.....	$13\frac{6}{10}$ cents per yard
Supervision and General Administration.....	$2\frac{1}{10}$ "
Repair and maintenance of Tug.....	$1\frac{1}{100}$ "

The material excavated during the past year has been deposited by the contractors in Curtis' Creek, about 3 miles below the city, in such places as it would not be moved from by winds, tides, or freshets.

In addition to the Supervisors who accompany each tow of scows, I have frequently and carefully, during the year, examined the dumping grounds in order to detect any tendency to movement on the part of the deposit, or any improper dumping of the scows, and have found none.

U. S. improvements. During the past year very valuable improvements have been made to the entrance of the Harbor near Fort McHenry by Col. Craighill, in charge of the engineering operations of the General Government in this section. Under his direction a large portion of the hard shoal on the west side of the entrance near the Fort has been removed, and the turning point into ship Channel on the east side has been widened several hundred feet.

Future depths, &c. The great increase of the commerce of the Port, as well as the continued increase in the dimensions of vessels used in the grain trade, has caused already a demand for greater depths in our Channels of approach, and therefore in our Harbor.

The General Government is now considering the propriety of giving a depth of 27

feet at low water in the Channels in the river and bay, and it is generally understood that, if this depth of water is obtained, lines of steamships will be put on by one or more large companies, that have not heretofore sent steamers to this port.

In this event it will be necessary not only to increase the depth in the Channels below Locust Point to 27 *feet*, but also to widen them to at least 600 feet.

By Joint Resolution No. 131, approved May 3, 1880, the Board was directed to have maps prepared to show the property lines, as well as pier and bulkhead lines, in all those portions of the Harbor where the pier head line was shorter than the shore line, with a view to determining the most equitable manner of granting permits for wharf extensions in such localities. With the aid of the City Surveyor, these maps have been prepared and drawn to a large scale in five (5) sheets, and are now ready for transmission to the Joint Standing Committee on Harbor, as required by the terms of the Resolution. Harbor maps.

The questions involved in the granting of permits for the improvement of the water-fronts in these portions of the Harbor are of great importance, and should have the prompt and careful consideration of the Council.

Anchorage Grounds.

I would suggest in the matter of regulating the anchoring of vessels in the Harbor, that the Harbor Board be given co-ordinate jurisdiction with the Harbor Master of the First District, who is now alone, by law, charged with the execution of the Anchorage Regulations.

FUTURE OPERATIONS.

Of the "original project" of the Board, relating to the primary necessities of the Harbor, there remains yet to be done:

About 70 feet width to Channel on east side of Fells' Point, 30,000 cubic yards; 300 feet to Channel on north side, from Sugar-House wharf to Bollman's wharf, 100,000 cubic yards; 150 feet to Channel in Main Branch, to Coal Oil wharves, 150,000 cubic yards.

The Channel on east side of Fells' Point should be widened, but the other two Channels are not now urgently required, though they may become so at any time by the steadily increasing business of the Harbor.

Work for 1881.

I am of the opinion that the most important work for this year will consist of the widening of the main Ship Channel above Fort McHenry, in order to render fully available the recent improvement of the Harbor mouth by the General Government, and the increase of width of the "cross-cut" Channel between Locust and Fells' Points.

The Back Basin and Docks, as also the head of the Middle Branch at Eutaw and Howard streets, will require the usual amount of re-dredging to keep down the deposits from sewers and inflowing streams.

The dredged Channels will also require some work, more especially on the north side below Jones' Falls, and on the south side from Dunington's wharf to Johnson's.

It will be advisable, moreover, to accommodate recent and contemplated improvements on the south side of the Basin, by extending shoreward the depth of 19 feet between Johnson's coal wharf and the site of Boyce's old wharf.

I would recommend for 1881, work as follows:

	C. Yards.
From Head of Basin	20,000
Back Basin and Docks	75,000
To Widen Main Channel at Harbor mouth	150,000
From south side of Basin	75,000
Middle Branch (Spring Gardens.)	75,000
Dredged Channels	45,000
Making a total of	440,000

Which will probably cost about $80,000, including all expenses of supervision, administration, &c.

CONSTRUCTION AND REPAIR OF WHARVES.

The works executed in this division of the duties of the Board consist of:

The repair of wooden bulkheads in the Back Basin (or City Dock;) the paving and grading of the Central Pier in the Back Basin; the building of a stone wall to replace the old wooden bulkheads in the same place; the re-building of the wharf at foot of Commerce street. The building of a wharf at foot of Cross street (authorized in 1878) was also re-commenced after a long suspension and litigation; but after driving and capping about one-half the piles, the work was again stopped by mutual consent to await further action of the Council.

For repairs of wharves the sum of $5,000 was appropriated, and by a subsequent resolution the Board was authorized to use any part of this amount they might deem proper toward the construction of the stone wall to replace old bulkheads in Back Basin; accordingly all expenses of drawings and supervision for the new, wall were paid out of the appropriation for wharf repairs.

J. B. Ely.

After due advertisement a contract was made on May 8, 1880, with Mr. Jno. B. Ely, (the lowest bidder,) for the performance of all wharf repairs for the year.

Under this contract, Mr. Ely rebuilt the equivalent of 700 linear feet 5 feet high, of

the bulkhead surrounding the Central Pier in the Back Basin, and about 130 feet linear of the bulkhead on the north side of the Basin; he also rebuilt (including foundations,) 60 feet linear of stone bulkhead in Long Dock; and rebuilt, from the pile-heads up, the wharf at foot of Commerce street, covering 1,700 square feet.

He was paid on these accounts:

For Central Pier	$1,284 24
Bulkhead on north side	573 80
Wall in Long Dock	488 83
Wharf foot of Commerce street.	283 02
Making a total payment of..	$2,629 89

Paving, &c., to Centre Pier.

By Joint Resolutions Nos. 105 and 202, the sum of $4,300 was appropriated to grade and pave so much of the Centre Pier in the Back Basin as the amount would permit.

Daniel Hagerty.

Accordingly, after due advertisement, a contract was closed on May 24th with Mr. Daniel Hagerty (the lowest bidder) to do the work. Under this contract, Mr. Hagerty completed the paving of about one-half the length of the pier, which is 120 feet wide; about 60 feet at the lower end were covered with Asphalt to form a place for the temporary deposit of the street and market sweepings, under direction of the Health Department.

Mr. Hagerty was paid under this contract:

For 3,450 yards grading			$1,035 00
3,520	"	paving	2,217 60
860	"	asphalt	960 00
Total			$4,212 60

New Stone Bulkhead.

The sum of $5,000 was also appropriated toward the replacing of the old and decayed wooden bulkheads in the Back Basin by a stone wall on deep foundations, to enable greater depths of water than 12 feet to be established in the Basin, when required.

Andrew Brown.

A contract was accordingly entered into on September 8th, with Mr. Andrew Brown, (the lowest bidder,) to do so much of this work as the money would permit.

Under this contract, Mr. Brown has put in the pile and timber foundations for 235 linear feet of wall, and has refilled a portion of the earth behind site of wall. The cold weather has prevented the execution of any masonry work.

He has earned under his contract $1,706.05, and has been paid $1,364.84, the balance being held as retained percentage.

Cross St. Wharf.

Mr. Benj. Glenn, under his original contract for building a wharf at foot of Cross street, has driven 47 piles, and fastened the main cap timbers on them, making the foundation, for about 125 feet length of wharf, 22 feet wide. He has never been paid anything

on account of this work, as his contract was for a lump sum on completion of the whole wharf.

The cost of inspection, drawings and surveys for all these works were charged to general wharf repairs, except about $60, charged to improvement of Central Pier in the Back Basin.

FUTURE WORK.

The grading and paving of the Central Pier in the Back Basin, in so far as it has gone, has removed to a great extent, one of the most insanitary nuisances that affected that section of the city; nearly one-half of it, however, yet remains to be paved, and I would strongly recommend its being done.

As the Council have indicated last year, their concurrence in the Board's views, as to the desirability of rebuilding with stone the bulkheads in the Back Basin, I would recommend the continuance of that work.

The public wharves are generally in good condition, but a small sum should be on hand always to meet any requirements; as the city not only loses wharfage by having its wharves out of repair, but renders itself liable for damages to vessels and persons using them. I would, therefore, recommend for this year:

For unexpended balance for stone bulkhead in Back Basin.....	$3,611 81
For continuing same.....	5,000 00
Completing paving of Central Pier in Back Basin.....	3,500 00
General wharf repairs.....	3,000 00
Making a total of.....	$15,111 81

The unexpended balance of last year's appropriation for building a stone bulkhead in the Back Basin, amounting to $3,611.81, must be re-appropriated, as it is pledged under a contract made last year.

I would, in connection with the subject of "wharves," strongly recommend that the Joint Standing Committee on the Harbor be authorized *during the recess of the Council*, and with the approval of the Mayor, to determine upon permits for wharf extensions.

ICEBOAT.

The steamer F. C. Latrobe has been maintained in excellent condition during the year and in the latter part of December, and as soon as any danger existed of ice obstruction to the Harbor, was put in commission, and has rendered valuable service daily since then.

The Iceboat was also used by the Free Excursion Society during the summer, and made in that time 12 trips to and from Avondale, (the Society's Sanitarium,) situated on

Bear Creek, 5 miles below the city. All the *extra* expenses of the boat, amounting to $509, were paid by the society.

There will be required for maintenance of Iceboat during 1881:

Unexpended balance of 1880	$2,010
New appropriation	7,000
Total	$9,010

The experiences of this winter demonstrate very plainly that, with the State and city Iceboats, the commerce of this port will not hereafter be in any danger of obstruction by ice in the river or bay.

It may be proper to state in this connection that the city tug Baltimore has been kept actively engaged breaking ice in the Harbor and the Middle Branch, and in all such places as it might be impossible or inconvenient for the larger boats to work.

In conclusion I have to express my satisfaction with the prompt and faithful assistance given to me by all the officers and employees of the Board.

I have had a large experience in public works, and can safely say that I have never been associated with more reliable and faith-

ful public servants than the employees of the Board.

With this report you will find tabular statements of *work done* and *money expended.*

Respectfully submitted,

N. H. HUTTON,
Engineer.

Statement of Receipts and Disbursements of the Harbor Board for the Year ending December 31, 1880.

	HARBOR.		EXPENSES OF ICEBOAT.		REPAIRS OF WHARVES.		REPAIRS AT CITY DOCK, (NEW WALL.)		IMPROVEMENT OF CENTRE PIER.		MAPS FOR HARBOR.	
Appropriations for work of 1880		$90,000 00		$8,000 00		$5,000 00		$5,000 00		$4,300 00		$500 00
Expenditures as follows:												
Contracts for Dredging, repairs of Wharves, repairs at City Dock, and Improvement of Centre Pier	$73,114 34				$2,629 89		$1,364 84		$4,212 60			
Salaries and Wages	15,052 89		$4,527 66		1,452 87				62 00		$215 00	
General Supplies	999 67		997 12		48 25		8 20				275 00	
Fuel	471 25		154 50									
Repairs to Tug and Iceboat	139 75		310 71									
Advertising	61 12						15 15					
Balances (unexpended)	160 98		2 010 01		868 99		3,611 81		25 40		10 00	
	$90,000 00	$90,000 00	$8,000 00	$8,000 00	$5,000 00	$5,000 00	$5,000 00	$5,000 00	$4,300 00	$4,300 00	$500 00	$500 00

Statement of Contracts Let and Work Done (Dredging, Repairs of Wharves, Improvement of Centre Pier, Repairs at City Dock and Cross Street Wharf,) During 1880, *under Supervision of the Harbor Board.*

NAME OF CONTRACTOR.	KIND OF WORK.	DATE OF CONTRACT.	PRICES.	WORK DONE.	LOCATION OF DREDGING.	AREA DREDGED.	DEPTH OF WATER OBTAINED.
American Dredging Company	Dredging.	May 13, 1880.	$11\frac{5}{8}$ cts. per cubic yard.	346,691 cubic yards.	Upper Middle Ground.	1,350,000 sq. feet.	19 feet.
" " "	"	" "	$13\frac{3}{4}$ " " "	46,787 " "	Middle Branch.	180,000 "	12 "
" " "	"	" "	$13\frac{1}{2}$ " " "	67,957 " "	Channels.	398,700 "	24 "
" " "	"	" "	17 " " "	44,912 " "	Back Basin and Docks	225,000 "	12 "
Daniel Constantine.....	"	" "	30 " " "	32,131 " "	Head of Basin.	180,000 "	19 "
J. B. Ely.....	Repairs of Wharves.	May 8, 1880.	Per Schedule.	Complete.			
Daniel Hagerty.....	Improvem't of Centre Pier.	May 24, 1880.	" "	"			
Andrew Brown.....	Repairs at City Dock (new wall.)	September 8, 1880	" "	"			
Benjamin Glenn.....	Cross Street Wharf.	May 14, 1878.	$1,827.25.	Unfinished.			

DIMENSIONS OF EXCAVATIONS MADE DURING 1880.

LOCATION.	LENGTH.	BREADTH.	DEPTH OF WATER OBTAINED.
Head of Basin.....	720 feet.	250 feet.	19 feet.
Upper Middle Ground.....	3,000 "	450 "	19 and 22 feet.
Channel north side Harbor.....	1,500 "	60 "	24 "
Cross-Cut and east side Fell's Point Channel..	2,190 "	30 "	24 "
Cross-Cut and Locust Point Channel.....	1,500 "	90 "	24 "
East side Lower Harbor (Canton) Channel....	2,400 "	45 "	24 "
Channel Back Basin.....	750 "	300 "	12 "
Main Channel, Middle Branch.....	1,200 "	30 "	12 "
Side Channels, Middle Branch.....	800 "	30 "	12 "
Across Head of Basin, Middle Branch.....	500 "	240 "	12 "

SUMMARY OF RESULTS.

YEAR.	AREA DREDGED.	AVERAGE DEPTH OF CUTTING.
1880.....	2,333,700 square feet.	$6\frac{1}{4}$ feet.
Total December 31, 1879.....	13,080,000 " "	6 "
Total December 31, 1880.....	15,413,700 " "	$6\frac{15}{100}$ "

ANNUAL REPORT

OF THE

CITY COMMISSIONER

TO THE

MAYOR AND CITY COUNCIL OF BALTIMORE,

FOR THE

FISCAL YEAR ENDING DECEMBER 31st, 1880.

REPORT.

CITY COMMISSIONER'S OFFICE,

Baltimore, January 1st, 1881.

To the Honorable the Mayor and
City Council of Baltimore:

GENTLEMEN:

I respectfully transmit the following annual report of the operations of this department of the City Government for the year ending 31st December, 1880:

REPAIR AND CONSTRUCTION OF SEWERS AND INLETS.

The old sewers, especially Chatsworth and Schroeder's run sewers, were thoroughly repaired, by renewing the bottoms, which had washed out in many places, and were full of holes for the collection of nuisances. Man-holes have been constructed in many places, in order to give the Health Department greater facility for cleaning them.

The extension of Harford run sewer, from Canton avenue to its outlet at the City Dock, has been much delayed, in consequence of the great caution necessary

to be observed in preparing the foundations. Had the usual course been followed of constructing coffer-dams, by which the work could have been pushed more rapidly, the water would have been "backed" into the adjacent property during rains, and damage would have ensued. At least two-thirds of the work has been done, and the whole will be finished during next summer.

A brick sewer has been constructed on West Baltimore street, connecting with the Carey street sewer, and extending west to Gilmor street.

Franklin and Bath streets sewer, beginning at the east side of Holliday street, where it connects with the inlet into Jones' Falls, and extending up Bath street to Calvert street, at which point it is divided into two branches—one extending to Franklin street, and up Franklin to Mulberry street; the other extending up Mulberry street nearly to Courtland street—has been completed, with the exception of one inlet, which could not be made on account of the severe weather.

Fremont street sewer, connecting with Chatsworth run sewer, near Columbia avenue, and intended to terminate at the intersection of Fremont and Pratt streets, would have been completed during the year, but was delayed, in consequence of difficulties with the contractors, whose contract we were obliged to annul, and do the work ourselves by day's labor. This work has also been delayed by the severe weather, which set in much earlier than usual.

Improved traps and man-holes have been constructed in connection with these sewers.

A sewer has been constructed from the northeast corner of Hoffman street and Greenmount avenue, under the bed of Greenmount avenue to the Falls. This sewer was built for the purpose of relieving Eager street, between Valley and McKim streets, by diverting the water from its course at Aisquith and Hoffman streets, and causing it to flow westward from Aisquith street along Hoffman street to the inlet at Hoffman street and Greenmount avenue, instead of running through private property, from John to Eager street.

The work of constructing the tunnel, now under contract, for the purpose of diverting the drainage of Harford run, north and east of the intersection of Ann and Eager streets, into the valley of Harris' creek, thus relieving the Harford run sewer south of that point, has been pushed ahead since its commencement last summer, night and day, in a very satisfactory manner, and it will probably be completed next season. The line of this tunnel, which starts from the west branch of Harris' creek, at the intersection of East Monument and Patapsco streets, runs along Monument to Chester street; thence along Chester to Eager street, and along Eager to Ann street, where it will connect with the Harford run sewer. After this tunnel is completed, and the course of the water diverted into the new channel, the old sewer of Harford run, between Broadway and Orleans street, will be so reconstructed as to remove it from its present location under private property to the line of the streets, and thus abate one of the greatest nuisances in the city. This diversion will relieve the old sewer of nearly one-half of the drain-

age it now conveys, and prevent the overflows so common of late years, and so injurious to property along its line.

In connection with this improvement, and in consideration of the future development of all that part of the city lying east of Patterson Park, in the valley of Harris' creek, I would suggest the importance of maturing plans and constructing works, with the view of conveying the drainage from Monument street to tidewater. For that purpose, I have had a partial survey made, which indicates that a tunnel should be constructed from Monument street, in the bed of Patapsco street, to Lancaster street, of sufficient capacity to receive the waters of Harford run and Harris' creek. The present course of Harris' creek is very much like those of Chatworth and Schroeder's runs; and if it is permitted to be arched over by private citizens, through whose property it runs, without regard to alignment or dimensions, the trouble and expense now attending them will occur in this case. The subject should be taken up at once, or before the property has been much improved.

I would also call your attention again to my remarks in my last report (page 4) in relation to the construction or continuation of Schroeder's run sewer, from its present outfall on Carey street to the Spring Gardens, which is of great importance to the proper drainage of that section of the city.

In grading and paving North avenue, from the Falls to Pennsylvania avenue, it was found necessary either to construct a new sewer, for the purpose of receiving the large quantity of surface water which accumulates

near the intersection of North avenue and McMechen street, or to utilize the old sewer which runs from a point near the intersection of North avenue and John street, under the beds of North avenue and the Baltimore and Potomac Railroad tunnel and the stables of the North Baltimore Passenger Railroad Company. After a careful examination, the latter plan was followed, by reconstructing the old sewer in a most substantial manner, and extending it some 175 feet southward, with inlets, &c. To perfect this arrangement for the disposal of the surface water, it will be necessary to construct a sewer from the intersection of Oliver and McMechen streets, along the bed of McMechen street, as now opened, until it connects with the sewer above referred to. I have, therefore, asked an additional amount, which, added to the balance left over, will complete it.

The trouble which existed at the intersection of Franklin street and Woodyear alley, caused by the overflowing of Schroeder's run sewer at that point, was relieved by diverting the surface water at the intersection of Republican and Franklin streets down Republican street, by the construction of cross-gutter covered with iron plates.

The contemplated change in the grade at the intersection of South Paca and Fremont streets, for which an appropriation was made, has not been done. After a careful survey of the locality was made, it was found impracticable to improve the neighborhood until a sewer is constructed from Columbia avenue, along Fremont and Eutaw streets to the Spring Gardens, which ought to be done.

A drain pipe has been laid in the jail yard, connecting the buildings with the sewer in Madison street, as directed by resolution of the Mayor and City Council.

Traps have been placed in the inlets to sewers at the following points:

Calhoun street, near Lanvale street.
Corner of Townsend street and Lovegrove alley.
Greenmount avenue, near North avenue.
Corner of Centre street and Hargrove alley.
" Broadway and Bank street.
" " and Canton avenue.
" " and Eastern avenue.
" " and Aliceanna street, 2 sets.
" " and Thames street, 2 sets.
Thames street, at foot of Broadway Market.
North avenue, near Mount Royal avenue, 2 sets.
" at Northern Central Railroad, 2 sets.

I would again call attention to the condition of Chatsworth run sewer, between Lombard and King streets, to which I referred in my last report as being in a very dilapidated condition, and as liable to fall in at any time—the effect of which would be serious damage to property north of it. Some arrangement ought to be made with the owners of the property under which the sewer runs, so that it could be reconstructed, and its capacity enlarged.

GRADING AND PAVING OF NEW STREETS.

During the year, as will be seen by reference to Table C, herewith submitted, new streets have been

graded, paved and kerbed, with an aggregate of 487,787 square feet of surface, and Belgian block paving has been laid to the extent of 2042 square yards.

In consequence of a decision of the Court of Appeals, affecting the paving of new streets by special ordinance of the Mayor and City Council, all work on new streets was stopped, except in such streets as were under contract previous to the rendering of the decision; otherwise much more work would have been done.

North avenue, from Pennsylvania avenue to Jones' Falls, was graded, paved, kerbed and graveled, opening communication from Belair avenue to Pennsylvania avenue—nearly the whole distance between the east and west limits of the city. Calvert street, from Biddle street to North avenue, and North street, from John street to North avenue, were also completed. The paving of those streets, in connection with the completion of Calvert and North street bridges, opens two important thoroughfares, to the great relief of Charles and Decker streets.

West Falls avenue, between Pratt and Lombard streets, and the approaches to Calvert and North street bridges, were paved with Belgian blocks, being the only works of that character done during the year.

Herewith is the table showing the amount of paving done for a number of years past, brought up to the end of the present year.

Paving done in the year	1863	—square feet	....	20,849
" "	1864	"	....	88,109
" "	1865	"	....	66,960
" "	1866	"	....	61,943
" "	1867	"	....	70,366
" "	1868	"	....	179,999
" "	1869	"	....	806,290
" "	1870	"	....	306,440
" "	1871	"	....	481,741
" "	1872	"	....	182,523
" "	1873	"	....	168,808
" "	1874	"	....	367,655
" "	1875	"	....	1,025,661
" "	1876	"	....	1,510,762
" "	1877	"	....	951,204
" "	1878	"	....	634,200
" "	1879	"	....	428,125
" "	1880	"	....	487,787
Belgian pavement laid in	1874	—square yards	....	6,079
" "	1875	"	....	11,967
" "	1876	"	....	10,003
" "	1877	"	....	34,621
" "	1878	"	....	22,916
" "	1879	"	....	None.
" "	1880	"	....	2,042

REPAIRS OF PAVED AND UNPAVED STREETS

The improved condition of the streets during the year is due to the liberal appropriation made, together with a more economical and effective manner of doing the work. Previous to the present year, with the ex-

ception of a single year, the appropriations for the repairs of streets have been inadequate to accomplish the work. I hope, therefore, that the appropriation for the year 1881 will be sufficient to enable us to continue this important work, until all the old kerbs and gutters have been removed.

The amount of work completed during the year is equal to 2,709,605 square feet of paving, and to 27,640 linear feet of kerbing, reset and adjusted; to accomplish which we used 24,300 loads of sand and gravel, and 5,930 perches of new cobble-stones. The cost, although a fraction higher than in 1879—caused by an increase in the cost of labor and material—is still less than it was under the contract system. After deducting the cost of resetting kerbs, the cost of repairs of streets is equal to $2\frac{5}{8}$ cents per square foot. Last year it was $2\frac{13}{100}$ cents per square foot. Particular attention was paid to resetting and adjusting gutters, in order to give them a regular grade, so as to prevent the accumulation of water, which in dry seasons becomes a nuisance.

In addition to the general repairs, all that part of the city lying between Canton avenue and Lancaster street and Bond and Caroline streets, was regraded, rekerbed and repaved, and the sewer from the intersection of Aliceanna and Caroline streets to the City Dock was enlarged and reconstructed. This improvement, I am pleased to say, has removed the difficulty heretofore existing, of "back water" at the intersection of Aliceanna and Caroline streets.

We have also rekerbed and repaved Swan street, Fish Market Space, Haw street, Concord street, from Lombard street to the Fish market, and have covered the gutters at intersection of Second street and Marsh Market Space with iron plates—the whole making a complete and desirable improvement in the vicinity of the Marsh market.

The grade at the intersection of Calvert and John streets was lowered about three feet, and the grade at the intersection of Calvert and Biddle streets was raised about one foot. These changes have improved the property in the vicinity.

Chase street, between Greenmount avenue and Wilcox street, and Biddle street, between Valley street and Proctor alley, have been regraded and repaved, reducing the grades considerably.

The unpaved streets have been well maintained. The Washington road, Mine Bank lane, Ridgely street, Bayard street, East Monument street, East Baltimore street, Cannon street, Coney's lane and East Fayette street, have been shelled and ditched.

FLAG AND STEPPING STONES.

There were laid during the year 160 rows of new flagstones, in compliance with resolutions of the Mayor and City Council.

A large number of old flagstones—removed in order to substitute new ones—were used as crossings for alleys and as gutter stones. This work was done by day's work at a less cost than it could be done by contract.

IRON PLATES.

Iron plates were placed over the gutters at the following intersections:

Broadway and Orleans street.
Cathedral and Howard streets.
Light and West streets.
Gay and Ensor streets, (2 sets.)
Calvert and German streets.
Ensor and Monument streets.
Franklin street and Carrollton avenue.
Columbia and Paca streets.
Pratt and High streets; and
Edmondson avenue and Woodyear alley.

REPAIRS OF BRIDGES.

All the city bridges have been kept in good repair, the floors and floor-joists of several having been renewed.

I must again call your attention to the condition of Harman's bridge, crossing Gwynn's Falls on the line of the old Annapolis road, which became the property of the city about three years ago. This bridge was in a very dilapidated condition when the city took possession of it; and notwithstanding a large sum of money has been expended on it, it is still in a very unsafe condition. I therefore urge the necessity of having it entirely rebuilt or thoroughly repaired, or that a street be opened and graded upon or near the same line to replace it, with the exception of the *channel* of Gwynn's Falls, which could be crossed by a trussed bridge.

Light street bridge, which became the property of the city and of Anne Arundel county, jointly, during the present year, has been kept in repair, but will requre a considerable outlay during the coming season.

These bridges, together with the bridge over Gwynn's Falls, on the line of the Washington turnpike, all of which, either in part or entirely, are to be maintained by the city, will increase the cost of repairs for the ensuing year very materially, as compared with the present year.

IMPROVEMENT OF JONES' FALLS.

The retaining walls on the west side of the falls and on the south side of City Dock, together with the piers, abutments and iron superstructure of the drawbridge, to which reference was made in my last annual report, have been completed, being one of the most important improvements in connection with this work.

North and Calvert street bridges, descriptions of which were given in my last report, have been completed. St. Paul street bridge is very nearly finished.

The masonry of the pier and abutments of Chase street bridge is practically completed, and the iron superstructure is under contract and will be finished during the coming year.

A new bridge on the line of Pratt street is under contract and will be erected at an early date.

As I stated in my last annual report, these bridges, viz: Calvert street, North street, St. Paul street and Chase street bridges, for workmanship, materials used, dura-

bility and design, will compare favorably with any similar structures in the United States, and will add very materially to the attractive features and to the value of the property in that section of the city.

The work on that portion of the falls, between Hillen and Low streets, the improvement of which has been delayed by proceedings for obtaining the right of way (which is now arranged,) will be commenced as soon as the weather will permit. This work when completed, with the exception of a few minor points, will make complete lines of retaining walls from Madison street to the outlet at the basin.

All the bridges, except that on the line of Gay street, have been completed, or will be shortly.

Respectfully submitted,

J. H. TEGMEYER,
City Commissioner.

LIST OF TABLES ANNEXED TO THE CITY COMMISSIONER'S REPORT FOR THE YEAR 1880.

Table A exhibits the amount of appropriations, the amounts expended and the balances due on the several appropriations.

Table B shows the amount of money required for the year ending 31st December, 1881.

Table C states the number of streets and alleys paved, with amount of paving done.

Table D exhibits the amount of superficial feet of paving in the city to the 31st December, 1879, and the number of superficial feet paved to 31st December, 1880.

Table E exhibits the revenue received in the Department for the year ending 31st December, 1880.

TABLES.

TABLE A.

Showing the Amount of Appropriations and the Balances due on the several Appropriations for the year ending 31st December, 1880.

ACCOUNTS.		Appropriations	Amounts Paid.	Amounts Undrawn.
Repairs of sewers and inlets	$12,000 00			
Paid Register	693 90			
		$12,693 90	$11,913 04	$780 86
Flag and stepping-stones		10,000 00	9,965 02	34 98
Repaving streets		3,000 00	2,490 53	509 47
Repairs of paved streets	$72,500 00			
Paid Register	22 14			
		72,522 14	72,406 19	115 95
Repairs of bridges	$3,500 00			
Amount transferred from sundry accounts, per resolutions 185 and 226.	4,574 09			
		8,074 09	7,994 65	79 44
Paving and repaving in front of city property		800 00	707 04	92 96
Incidentals		25 00	16 50	8 50
Salaries		9,000 00	9,000 00	.....
Paving and repaving "cross streets"		15,000 00	14,974 03	25 97
Repairs of unpaved streets		2,000 00	1,756 79	243 21

Improvement of Jones' Falls.....$465,200 28			
Paid Register..... 1,050 62			
	466,250 90	466,250 90	.....
Iron plates.....	4,000 00	3,952 30	47 70
Extension of Harford run sewer, per Ordinance 37, of 30th April, 1879.	24,196 42	11,083 99	13,112 43
Bloom street sewer, per Resolution 130, of 30th April, 1879.....	200 00	148 80	51 20
Regrading Chase street, per Ordinance 78, of 18th June, 1879.....	1,700 00	1,631 92	68 08
Sewer in Baltimore street, per Ordinance 7, of 20th February, 1880.....	10,000 00	9,148 30	851 70
Repairing Washington road, per Resolution 18, of 25th February, 1880.....	500 00	497 50	2 50
Sewer under the beds of Franklin, Bath, &c., streets, per Ordinance 8, of 24th February, 1880.....	13,000 00	8,716 74	4,283 26
To continue tunneling of Chatsworth run, per Ordinance 48, of 5th April, 1880.....	23,000 00	283 77	22,716 23
Retaining walls at Carey street sewer.....	150 00	94 28	55 72
Sewer in Fremont street, per Ordinance 40, of 27th March, 1880.....$14,000 00			
Paid Register..... 9 50			
	14,009 50	10,083 12	3,926 38
Improvement of Harford run	39,829 32	39,829 32	.....
Amounts carried forward.....	$729,951 27	$682,944 73	$47,006 54

TABLE A—Concluded.

ACCOUNTS.	Appropriations	Amounts Paid.	Amounts Undrawn.
Amounts brought forward	$729,951 27	$682,944 73	$47,006 54
Shelling Point lane	150 00	149 95	05
" Ridgley street	150 00	150 00	.....
Livery of horses	500 00	500 00	.....
Regrading Biddle street, per Ordinance 59, of 20th April, 1880	2,500 00	2,500 00	.....
Raising grade, &c., of Caroline street, &c., per Ordinance 52, of 10th April, 1880	7,000 00	7,000 00	.....
Inlets to sewer on North avenue	7,350 00	4,829 85	2,520 15
Rekerbing north side of Pleasant street, per Resolution 56, of 23d March, 1880	200 00	175 70	24 30
Traps to inlets of Broadway sewer, Resolution 34, of 15th March, 1880	2,400 00	2,067 96	332 04
Light-street bridge	1,000 00	1,000 00	.....
Rekerbing east side of Courtland street, per Resolution 143, of 11th May, 1880	200 00	174 28	25 72
Changing surface drainage at Hoffman and Aisquith streets, per Resolution 119, of 20th April, 1880	1,000 00	970 24	29 76
Improvement of streets at Marsh market, per Resolution 6, of 11th February, 1880	3,800 00	3,800 00	.....

Defining lines, &c., at Belair market, per Resolution 132, of 4th May, 1880	50 00	4 50	45 50
Changing flow, &c., at Carrollton avenue and Franklin street, per Resolution 141, of 6th May, 1880	325 12	325 12	.....
Rekerbing south side of Saratoga street, per Resolution 127, of 3d May, 1880	108 85	108 85	.....
Shelling Mine Bank lane, per Resolution 130, of 3d May, 1880	150 00	140 90	9 10
Sewer in jail yard, per Resolution 193, of 25th May, 1880	*500 00	500 00	.....
Removing "ailanthus trees," &c., per Resolution 247, of 22d October, 1880	†125 00	125 00	.....
	$757,460 24	$707,467 08	$49,993 16

* Transferred from account for raising grade, &c., of Caroline street.

† Transferred from account for rekerbing north side of Pleasant street.

TABLE B.

Showing the amounts required for the City Commissioner's Department for the year ending 31st December, 1881.

ACCOUNTS.	AMOUNTS.
Repairs of paved streets	$75,000 00
" bridges	12,500 00
" sewers and inlets	15,000 00
" unpaved streets	3,000 00
Flag and stepping stones	15,000 00
Paving in front of city property	900 00
Repaving streets	2,000 00
Paving and repaving "cross streets"	15,000 00
Incidentals	25 00
Salaries	9,000 00
Extension of Harford run sewer, including bridges	17,500 00
Baltimore street sewer, balance due	851 70
Franklin and Bath street sewer	4,283 26
To continue tunneling Chatsworth run	22,716 23
Fremont street sewer, including connection at Columbia street	6,000 00
Inlets to sewer on North avenue, including sewer in McMechin street	4,000 00
Traps to Broadway sewer	332 04
	$203,108 23

TABLE C.

Statement of Streets, Lanes and Alleys paved for the year ending 31st December, 1880.

NAMES OF STREETS, &c.	No. of Sq. Feet.	Price per Square Foot.	Names of Contractors.
St. Paul street, between Townsend street and North avenue	15,628	4½ cents.	Patrick Redington.
Henry street, from Hughes street north to the water	15,518	5½ "	Leo Eschbach.
Washington street, from Lanvale street to North avenue	36,950	4¾ "	Louis Hax.
Calvert street, from John street to the bridge over Jones's Falls	16,719	5 "	John Haugh.
Gilmor street, from Ramsay street to the line of B. and O. R. R.	23,883	5 "	P. M. Holbrook.
Valley street, from Eager to John street	35,841	5 "	Jas. P. McGovern.
Ann street, from Chase to Biddle street	9,440	4¾ "	P. M. Holbrook.
Plum alley, from West to Stockholm street	4,338	6 "	Louis Hax.
Calvert street, from Lanvale street to the bridge over Jones's Falls	11,547	5 "	Patrick Redington.

TABLE C—Concluded.

NAMES OF STREETS, &c.	No. of Sq. Feet.	Price per Square Foot.	Names of Contractors
North street, from Townsend street to the bridge over Jones's Falls....	41,260	4½ cents.	Edward Hughes.
Bloom street, from Druid Hill avenue to Division street.....	15,483	5 "	Conrad Kraft.
Castle street, from Fairmount avenue to a point 264 feet north of the same	8,441	5 "	A. Schneider & Son.
North street, from Biddle street to the bridge over Jones's Falls.....	12,060	5¼ "	Jas. P. McGovern.
Cole street, from Stricker to Mount street.....	29,577	5 "	P. M. Holbrook.
Oliver street, from McMechen to Dolphin street.....	37,721	4½ "	John Haugh.
North avenue, from Pennsylvania avenue to Jones's Falls.....	135,761	4¾ "	Owen Patterson.
Robert street, from Pennsylvania to Druid Hill avenue.....	30,420	Private contract.	Eschbach & Patterson.
Dover street, from Greene to Emory street.....	7,200	"	John P. V. Hax.
	487,787		

TABLE D.

Showing the amount of Superficial Feet of Paving done to 31st December, 1880.

Amount of superficial feet of paving completed to 31st December, 1879	35,983,171
Amount of superficial feet of paving completed from 1st January to 31st December, 1880	487,787
Total amount of superficial feet	36,470,958

TABLE E.

Statement showing the Revenue received in the Department of the City Commissioner from 1st January to 31st December, 1880.

ON WHAT ACCOUNT RECEIVED.	AMOUNTS.
Vaults and areas	$1,270 90
Repairs of sewers	693 90
" paved streets	22 14
Improvement of Jones' Falls	1,050 62
Public printing	16 00
Fremont street sewer	9 50
	$3,063 06

ANNUAL REPORT

OF THE

General Superintendent of Lamps

AND

INSPECTOR & SEALER OF GAS METERS,

TO THE

MAYOR AND CITY COUNCIL OF BALTIMORE,

FOR THE

FISCAL YEAR ENDING DECEMBER 31st, 1880.

REPORT.

OFFICE OF GENERAL SUPERINTENDENT OF LAMPS
AND INSPECTOR AND SEALER OF GAS METERS,

Baltimore, January 6th, 1881.

To the Honorable the Mayor and
City Council of Baltimore:

GENTLEMEN:

In presenting this second annual report of this department, I would state that notwithstanding the confusion resulting from the three gas companies consolidating, the mixing of coal and water gas, thus altering the specific gravity, and changing services from coal to water gas, the affairs of the office have been tolerably satisfactory.

There is at the present time five thousand and thirty-two (5032) gas lamps in use, exclusive of parks, squares, &c., being an increase of one hundred and eighty-five (185) during the year.

Eleven hundred and fifteen gasoline lamps (1115); being an increase of one hundred and seventeen (117) during the year.

As the city extends and improvements are made, more lamps are required; in fact quite a large number is necessary at this time if the gas mains were laid, but serious objection is made by citizens to putting up gasoline lamps.

This objection is so serious that gasoline lamps have been broken every day, and could not be kept in order. As soon as gas could be substituted there has been no more trouble.

During the year, all the lamp posts and lanterns have been painted with two (2) coats of paint, which very much improves their appearance, and will cause them to last much longer, particularly the tin work. They should be painted with one coat of paint every year, certainly every two years.

In May last, as directed by resolution of the Mayor and City Council, a contract was made with Mr. Thomas M. Robier to place one thousand (1000) signs on the street lamps, indicating the names of the streets, at an expense of $1,750. There has been much delay in securing the necessary tools to cut out the letters, but the contractor is now pressing the work to completion. When finished it will be a source of gratification to our citizens and useful to strangers.

In May last, a contract was made by the city with the three gas companies then in existence to supply the city with gas for five years, at the rate of one dollar and eighty-five cents per one thousand cubic feet; this is an increase of thirty-five cents on the price paid to the Baltimore Company and the Peoples' Company since

the Consumers Company commenced supplying gas; and a reduction of sixty-five cents from the price charged previous to the introduction of the Lowe process of making gas in our city.

Since the consolidation of the companies, the one company has been carrying on the contract of the three.

The three companies agreed to lay gas mains as ordered by ordinance or resolution of the Mayor and City Council, to the amount of twenty thousand dollars per year, and report the length, size and cost of the same to this office as required by Ordinance No. 100, approved October 23d, 1878.

I have requested mains to be laid as ordered, but have not received any report, notwithstanding I have written twice requesting the same in time for this report.

There has been many attempts to light the street gas lamps simultaneously and a utomatically indifferent cities of the world, all of which we try and think we do keep ourselves informed of; but as far as I can learn there is no plan perfected that is more effective or economical than that in use in Baltimore.

The electric light seems to be making some advancement, but at this time the cost and efficiency are still in doubt. It is a settled fact that one large gas or other light will give more illumination than a number of small burners of the same consumption; but, as far as our information extends, the division of the electric currect very largely increases the expense; consequently if a large open space is to be lighted it may be done,

but if a number of smaller lights are required for more contracted places, the expense is materially increased.

The Superintendents have cheerfully complied with every request, and materially assisted the General Superintendent in the discharge of his duty. Also most of the lamplighters are careful and attentive.

Your obedient servant,

F. W. KING,
General Superintendent of Lamps and Inspector and Sealer of Gas Meters.

LIST OF TABLES

Annexed to the Report of the General Superintendent of Lamps and Inspector and Sealer of Gas Meters for the year 1880.

Table A exhibits the number and size of gas meters inspected and sealed—also rejected, being incorrect or out of order.

Table B shows the amount received by the department and paid to the City Register on the warrant of the Comptroller, from January 1st to December 31st, 1880.

Table C exhibits the amount of appropriations, and amounts expended, with balance unexpended, and the deficit.

Table D shows the amounts required for the year ending December 31st, 1881.

TABLE A

Exhibits the Number and Size of Gas Meters inspected and sealed; also, rejected, being incorrect and out of order.

	Size and Number of Meters Inspected and Sealed, being correct.											
No. Lights.....	2	3	5	10	20	30	45	60	80	100	150	200
	139	3670	4972	747	224	61	44	18	2	26	4	2

	Size and Number of Meters Rejected, being incorrect and out of order.							
No. Lights.....	2	3	5	10	20	30	45	100
	9	175	247	51	23	4	5	3

In addition to the above, fifty street lamp meters were inspected; thirty-seven were found to be incorrect. The meters in the City Hall, Fire Department and other public buildings, were tested.

TABLE B.

Showing the amount received by the Department, and paid to the City Register on the warrant of the Comptroller, from January 1 *to December* 31, 1880.

Inspecting Gas Meters	$2,616 75
Repairs of Lamps	139 60
	$2,756 35

TABLE C.

Exhibits the amount of appropriations and amounts expended, with the balance unexpended; also, the deficit.

	DR.	CR.
Lamp Pillar and Lamp Account.	$25,462 44	$26,500 00
Balance	1,037 56	
	$26,500 00	
Gas Account	$119,999 95	$120,000 00
Balance	05	
	$120,000 00	

In consequence of the increased price of gas, there is a deficiency amounting to $19,334.68, for bills due the Gas Company.

TABLE D,

Showing the amount required for the year ending December 31, 1881.

Lamp Pillars and Lamp Account, including Gasoline Lamp Supplies and Repairs; Gas and Gasoline Posts; Lamps or Lanterns; Repairs of Gas Lamps, &c.....	$26,500 00
Gas Account, including Gas for Street Lamps, Markets, Halls, Bridges, Squares, &c.....	$167,000 00
Livery General Superintendent's Horse	$200 00

DO NOT CIRCULATE

267357

DO NOT CIRCULATE